

Dr. SINA MOSTAFVI

(Ph.D., M.Arch., B.Arch.Eng.)

Dr. Sina Mostafavi is a practicing architect, researcher, and educator with computational design and architectural robotics expertise. He is an Associate Professor at Texas Tech University College of Architecture. Mostafavi's research focuses on innovative applications of emerging materials and technologies, empowered by hybrid human-machine intelligence, for integrated design, inclusive automation, and circular production. He holds a doctoral degree from TU Delft, where he has been a senior researcher and the manager at the robotic building lab of Hyperbody Research Group at BK-City. At the Dessau Institute of Architecture in Bauhaus, he initiated the DARS.hub unit [Design, Architectural Robotics & Systems], where he led several interdisciplinary projects such as 100 Years Bauhaus Pavilion, Bioplastic Robotic-3D-Printing and Adaptive City Car sponsored by AUDI. As a practicing architect, he is the founder of SETUParchitecture, an award-winning studio aiming to adapt digital design-to-production technologies to geo-cultural specificities.

Mostafavi is the author of the book titled Hybrid Intelligence in Architectural Robotic Materialization (HI-ARM), which introduces Porosity, Hybridity, and Assembly as three main constituents in robotic materialization and centers on incorporating Computational, Fabrication, and Material Intelligence in integrated design-to-robotic-production workflows. Lectured and published internationally, he has presented his works in numerous institutions such as ETH Zurich, AA-London, UT Sydney, USC Los Angeles, TU Vienna, Paris Malaquais, KNAW Amsterdam, and Teulo Talks New Zealand, among others. He is a scientific committee member of various journals and conferences such as eCAADe, ACADIA, CAAD Futures, 3D Printing and Additive Manufacturing, and Automation in Construction Journals. He is an elected Board of Directors member in ACADIA, Association of Computer Aided Design in Architecture (2022-24), and Editorial Board member in IJAC (2022-23), International Journal of Architectural Computing.

Mostafavi is the author of the book titled Hybrid Intelligence in Architectural Robotic Materialization (HI-ARM), which introduces Porosity, Hybridity and Assembly as three main constituents in robotic materialization and centers on incorporating Computational, Fabrication, and Material Intelligence in integrated design-to-robotic-production workflows. Lectured and published internationally, he has presented his works in numerous institutions such as ETH Zurich, AA-London, UT Sydney, USC Los Angeles, TU Vienna, Paris Malaquais, and KNAW Amsterdam, among others. He is a scientific committee member of various journals and conferences such as eCAADe, ACADIA and CAAD Futures, 3D Printing and Additive Manufacturing, and Automation in Construction Journals. He is an elected Board of Directors member in ACADIA, Association of Computer Aided Design in Architecture (2022-24) and Editorial Board member in IJAC (2022-23), International Journal of Architectural Computing.

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CONTACT AND DETAILS

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| Emails | sina.mostafavi@ttu.edu info@sinamostafavi.com |
| Office Address Phone | Room 705, College of Architecture, Texas Tech University 1800 Flint Avenue, Lubbock, TX 79409 +1 (806) 834-2921 |
| Websites | http://sinamostafavi.com http://setuparchitecture.com/ |
| Public social media | LinkedIn (smostafavi) Instagram (sinamostafavi) |
| Citizenship | Dual citizenship, Iranian-Dutch |
| Research Profiles | Google Scholar ResearchGate OrciD |

EXPERTISE AND INTERESTS

ARCHITECTURAL DESIGN, HYBRID INTELLIGENCE IN ARCHITECTURAL DESIGN AND CONSTRUCTION, ARCHITECTURAL ROBOTICS, CIRCULAR DESIGN AND CONSTRUCTION, INNOVATIVE DESIGN MATERIALIZATION METHODS AND BUILDING SYSTEMS, DIGITAL FABRICATION, HUMAN-ROBOT COLLABORATION, VIRTUAL AND AUGMENTED REALITIES IN DESIGN AND CONSTRUCTION, BUILDING DIGITALIZATION AND PRODUCTION AUTOMATION, SUBTRACTIVE ADDITIVE AND FORMATIVE MANUFACTURING, FABRICATION-AWARE DESIGN, ON-DEMAND DESIGN MASS CUSTOMIZATION, DESIGN COMPUTATION, ARTIFICIAL INTELLIGENCE IN ARCHITECTURAL DESIGN AND PRODUCTION, MULTI-MATERIALITY, POROSITY, HYBRIDITY, ASSEMBLY, TOPOLOGY OPTIMIZATION, URBAN MANUFACTURING, BUILDING RESILIENT COMMUNITIES, PERFORMANCE-DRIVEN DESIGN, INCLUSIVE AUTOMATION IN DESIGN AND CONSTRUCTION.

EDUCATION

- 2021 **Doctorate in Architecture, Delft University of Technology, Netherlands (Ph.D.)**
(Doctor of Philosophy in Architecture, Architectural Engineering and Technology)
Thesis title HI-ARM: Hybrid Intelligence in Architectural Robotic Materialization
Thesis Subtitle: Computational, Fabrication and Material Intelligence for Multi-Mode Robotic Production of Multi-Scale and Multi-Material Systems.
TU Delft, Faculty of Architecture and the Built Environment, Hyperbody Group, Department of Architectural Engineering and Technology. Promotor: Prof.ir Kas Oosterhuis (TU Delft), Copromotors: Dr.ing H. Bier (TU Delft) & Dr. N.M. Bioria (TU Delft & Uni. Tech. Sydney) Independent Doctoral Committee Members: Prof.dr.-ing. Michael.U. Hensel (TU Vienna, Austria), Prof.dr. Jane Burry (TU Swinburne, Australia) Prof.dr.-Ing. Patrick Tueffel (TU Eindhoven, Netherlands), Prof.dr.ir A. van Timmeren (TU Delft, Netherlands)
- 2010 **Master of Architecture, University of Tehran (M. Arch.)**
Cum Laude, Graded with Highest Distinction, Dissertation on Design Devices in Architectural Design Process. From digital to physical representation and generative design interfaces;
Design Project: Multi-Functional Design Research Centre
- 2007 **Bachelor of Architecture, Tehran University of Art (B. Arch. Eng.)**
Summa Cum Laude, Graded with Highest Distinction and Ranked as the first top student,
Graduation Design project: Art and cultural center, dissertation on design procedure, diagrammatic reasoning, and representation

PROFESSIONAL EXPERIENCE AND POSITIONS

- SEP. 2022
PRESENT **Associate Professor, Texas Tech University, College of Architecture, US**
Full time research, teaching and service with the focus on Architectural Robotics, Computational Design and Advanced Building Technology.
- APR. 2022
AUGUST 2022 **Senior Lecturer (Associate Professor) in Architecture, University of Huddersfield, UK**
Full time permanent research and teaching position, leading graduate and undergraduate

architecture (RIBA accredited) and building technology courses in Architecture in the Department of Architecture and 3D Design of the School of Arts & Humanities.

MAR. 2016
MAR. 2022

Senior researcher, TU Delft, Hyperbody and Architectural Engineering Groups, NL

Leading design to production studios and courses, coordinating research and education activities Hyperbody Research Group of TU Delft, manager at Robotic Building lab at Architectural Engineering and Technology Department at AE+T Department.

APR. 2017
FEB. 2022

Director of DARS, Unit coordinator in Dessau Institute of Architecture at Bauhaus, GR

Initiator and Director of DARS, [Design, Architectural Robotics & Systems], studios and seminars, Coordinator in charge of design studios and various elective and compulsory courses at international master's in architecture program at HS-Anhalt, DIA at Bauhaus.

SEP. 2013
PRESENT

Founder, Architect in charge, SETUParchitecture studio

Owner and principal designer of SETUParchitecture studio, in charge of design, supervision and construction of several architectural design and research-driven projects at various scales including award winning built projects.

JAN. 2014
MAR. 2016

Researcher and tutor TU Delft, Manager at Robotic Building lab of Hyperbody group, NL

Coordinator of research and education activities; co-initiator robotic building lab, responsible for setting-up the new robotic lab at Hyperbody group, supported by 3TU, Delft Robotics Institute (DRI), 100% Research, ABB and KUKA.

SEP. 2009
AUG. 2013

Co-Founder and lead designer, Transformative Architecture Office

Co-founder and associate architects, Architectural Design, and construction supervision of several residential, commercial, and mixed-used projects at various scales.

SEP. 2014
FEB. 2015

Researcher, TU Delft, Robotically Driven Construction of Building (RDCB) 3TU.Bouw

Development of customized end-effectors for robotic additive manufacturing, coordinating of robotic workshops, and directing the construction of prototypes at TU Delft.

SEP. 2011
AUG. 2013

Instructor, TU Delft, Department of Architectural Engineering + Technology, NL

Lectures on Methods and Theories of Digital Design in Architecture, Performative Computational Design and digital fabrication.

SEP. 2007
AUG. 2009

Freelance Designer

Collaborating with design and engineering consultants and participating in competitions.

PUBLICATIONS

BOOKS, BOOK CHAPTERS, PEER-REVIEWED PAPERS AND JOURNALS

| | | | |
|------|------|---|---|
| 2022 | P_35 | <p>Topology Optimization Techniques for Architectural Design</p> <p>Morales Beltran, Mostafavi, S. (2022). Topology Optimization Techniques for Architectural Design: A Technique for Obtaining Discrete Structures from Continuum Typologies. In Pak, B, Wurzer, G and Stouffs, R (eds.), Co-creating the Future: Inclusion in and through Design - Proceedings of the eCAADe 2022, Ghent, 13-16 September 2022, pp. 589–598</p> | <p>PEER-REVIEWED ECAADE PROCEEDINGS</p> |
| 2021 | P-34 | <p>HI-ARM, Hybrid Intelligence in Architectural Robotic Materialization</p> <p>Mostafavi, S. (2021) Hybrid Intelligence in Architectural Robotic Materialization (HI-ARM): Computational, Fabrication and Material Intelligence for Multi-Mode Robotic Production of Multi-Scale and Multi-Material Systems, TU Delft A+BE publisher, 1-266, Netherlands.</p> | <p>BOOK A+BE</p> |

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|-----------|---|---|
| P_33 | Bioplastic Robotic Materialization. Design to robotic production of biodegradable lamps | BOOK CHAPTER FRANCOANGELI |
| | Kretzer, M., Mostafavi, S. (2021). Bioplastic Robotic Materialization, Design to Robotic Production of Biodegradable Lamps, in ICS Materials, Interactive, Connected and Smart Materials, Edited by Venere Ferraro and Valentina Rognoli, FrancoAngeli Publisher, Milan | |
| 2020 P_32 | Design Computation to Robotic Production Methods for Reciprocal Tessellation of Free-from Timber Structures | PEER-REVIEWED ECAADE PROCEEDINGS |
| | Mostafavi, S. , Kastrati, V., Badr H., Mazlan S. (2020) Design Computation to Robotic Production Methods for Reciprocal Tessellation of Free-from Timber Structures, In Werner, L., Koring, D (eds.), Anthropologic – Architecture and Fabrication in the cognitive age - Proceedings of the 38th eCAADe Conference – Technical University of Berlin, Berlin, Germany, 16-17 September 2020. | |
| P_31 | Robotic Fabrication with Bioplastic Materials | PEER-REVIEWED ECAADE PROCEEDINGS |
| | Kretzer, M., Mostafavi, S. (2020) Robotic Fabrication with Bioplastic Materials: Digital design and robotic production of biodegradable objects, In Werner, L., Koring, D (eds.), Anthropologic – Architecture and Fabrication in the cognitive age - Proceedings of the 38th eCAADe Conference – Technical University of Berlin, Berlin, Germany, 16-17 September 2020. | |
| 2019 P_30 | Materializing Hybridity in Architecture: Design to Robotic Production of Multi-Materiality in Multiple Scales | PEER-REVIEWED JOURNAL TAYLOR & FRANCIS |
| | Mostafavi, S. , Kemper, B., Du, C. (2019). Materializing Hybridity in Architecture: Design to Robotic Production of Multi-Materiality in Multiple Scales, Architectural Science Review, Issue on Means, Methods and Machines in Architecture, Taylor & Francis. | |
| 2018 P_29 | Architectural robotics and multiscale material architecture | BOOK CHAPTER ORO EDITIONS |
| | Mostafavi, S. , Anton, A. (2018) : Materially informed robotic fabrication, architectural robotics and multiscale material architecture. Book Chapter In: Daas, M., Wit, A.J. (eds.) Towards a Robotic Architecture, pp. 88–99. ORO Editions, Novato, CA. | |
| P_28 | Multimode Subtractive-Additive Robotic Materialization | PEER-REVIEWED CHAPTER- ROBARCH SPRINGER |
| | Mostafavi S. , Kemper B.N., Fischer D.L. (2018) Multimode Robotic Materialization, Design to Robotic Fabrication Method of Integrating Subtractively Produced Hard Components and Additively Deposited Soft Silicone. In: Robotic Fabrication in Architecture, Art and Design 2018. ROBARCH 2018. Springer. | |
| P_27 | Robotic Materialization of Architectural Hybridity | PEER-REVIEWED ECAADE PROCEEDINGS |
| | Mostafavi, S. , Bier, HH., Kemper B.N., Fischer D.L. (2018) Robotic Materialization of Architectural Hybridity - Modelling, Computation and Robotic Production of Multi-materiality, In Kepczynska-Walczak, A, Bialkowski, S (eds.), Computing for a better tomorrow - Proceedings of the 36th eCAADe Conference - Volume 2, Lodz University of Technology, Lodz, Poland, 19-21 September 2018, pp. 301-308. | |
| P_26 | Assembly of shells with bi-stable mechanism | PEER-REVIEWED AAG PROCEEDINGS |
| | Chiang, Y., S. Mostafavi , and H.H. Bier. (2018) Assembly of shells with bi-stable mechanism, Conference proceeding of Advances in Architectural Geometry, AAG 2018 at Gothenburg. | |

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| P_25 | Design to Robotic Assembly: An Exploration in Stacking | PEER-REVIEWED |
| | Chiang, Y., H.H. Bier, and S. Mostafavi .(2018) Design to Robotic Assembly: An Exploration in Stacking, <i>Frontiers in Digital Humanities</i> 5. | JOURNAL FRONTIERS |
| 2017 | Design to robotic production for informed materialization | PEER-REVIEWED |
| P_24 | Mostafavi, S. , Anton, A., Bodea, S. (2017) Design to Robotic Production for Informed Materialization Processes. in <i>Cyber Physical Architecture, SPOOL</i> , [S.I.], v. 4, n. 1, dec. 2017. | JOURNAL SPOOL |
| P_23 | Deep Learning Object Recognition in a D2RP&O implementation | PEER-REVIEWED |
| | Liu Cheng, A., Bier, H., and Mostafavi, S. (2017). Deep Learning Object-Recognition in a Design-to-Robotic Production and -Operation Implementation. In <i>Proceedings of the 2nd IEEE Ecuador Technical Chapters Meeting (ETCM 2017)</i> IEEE. | IEEE PROCEEDINGS |
| 2016 | Materially Informed Design to Robotic Production: A Robotic 3D Printing System for Informed Material Deposition | PEER-REVIEWED |
| P_22 | Mostafavi S. , Bier H. (2016) Materially Informed Design to Robotic Production: A Robotic 3D Printing System for Informed Material Deposition. In: Reinhardt D., Saunders R., Burry J. (eds) <i>Robotic Fabrication in Architecture, Art and Design 2016</i> . Springer. | CHAPTER- ROBARCH SPRINGER |
| P_21 | Robotic Building as Physically Built Robotic Environments and Robotically Supported Building Processes | PEER-REVIEWED |
| | Bier, H., Mostafavi S. (2016) Robotic Building as Physically Built Robotic Environments and Robotically Supported Building Processes. In: Dalton N., Schnädelbach H., Wiberg M., Varoudis T. (eds) <i>Architecture and Interaction. Human-Computer Interaction Series</i> . Springer. | CHAPTER- ROBARCH SPRINGER |
| 2015 | Data-Driven Architectural Design to Production | PEER-REVIEWED |
| P_20 | Bier, H., Mostafavi, S. (2015) Data-Driven Architectural Design to Production and Operation in open-access journal <i>Systema: Connecting Matter, Life, Culture and Technology</i> . | JOURNAL SYSTEMA |
| P_19 | Informed design to robotic production systems | PEER-REVIEWED |
| | Mostafavi, S. , Bier, HH. Anton, A., Bodea, S (2015), Informed Design to Robotic Production Systems - Developing Robotic 3D Printing System for Informed Material Deposition Real-time eCAADe 2015 proceedings, Vienna, Austria. | ECAADE PROCEEDINGS |
| P_18 | Informed Robotic3DPrinting | PEER-REVIEWED |
| | Mostafavi, S. , Bier, HH.(2015) Robotic 3D printing in Computational Ecologies, Peer reviewed projects proceeding, <i>ACADIA</i> October 2015, Cincinnati, United States. | ACADIA PROCEEDINGS |
| P_17 | Structural Optimization for Materially Informed Design to Robotic Production Processes | PEER-REVIEWED |
| | Bier, HH, Mostafavi, S. (2015) Structural optimization for materially informed design to robotic production processes <i>American Journal of Engineering and Applied Sciences</i> 8 (4), 549-555.(2015). | JOURNAL SCIENCE PUBLICATIONS |
| P_16 | Design to Robotic production and operation | PEER-REVIEWED |
| | Bier, HH., Mostafavi, S. , Anton, A., Bodea (2015) paper presented for the Critical and Clinical Cartographies conference, 3C Int. Conf. Delft, the Netherlands. | 3C CONFERENCE PROCEEDINGS |

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| 2014 | P_15 | Data-driven architectural production and operation Bier, HH and Mostafavi, S. (2014) Data-driven architectural production and operation in J Wilby, S Blachfellner & W Hofkirchner (Eds.), the 22nd European meetings on cybernetics and systems research (pp. 248-255): Bertalanffy Centre for the Study of Systems Science (BCSSS), Vienna, Austria | PEER-REVIEWED EMCSR PROCEEDINGS |
| | P_14 | Design to fabrication integration and material craftsmanship Mostafavi, S. and Tanti, M. (2014) Design to fabrication integration and material craftsmanship in, eCAADe Conference, FUSION, September 2014, New Castle, United Kingdom. | PEER-REVIEWED ECAADE PROCEEDINGS |
| | P_13 | Agent based complex design systems in multiple scales Mostafavi, S. , Yu. S., and Bilorina, N. (2014) Agent based complex design systems in multiple scales in Design Agency, ACADIA October 2014, University of Southern California (USC), Los Angeles, United States. | PEER-REVIEWED ACADIA PROCEEDINGS |
| 2013 | P_12 | Performance driven design and design information exchange Mostafavi, S. , Morales Beltran, M.G., and Bilorina, N.M. (2013). Performance driven design and design information exchange. In R Stouffs & S Sariyildiz(Eds.), Proceedings eCAADe 2013 conference, (pp. 117-126), Delft, The Netherlands. | PEER-REVIEWED ECAADE PROCEEDINGS |

ARTICLES, PEER REVIEWED PROJECT VIDEOS AND ENCYCLOPEDIA ENTRIES

| | | | |
|------|------|--|---------------------------------------|
| 2022 | P_11 | Building Resilient Communities Over Time Mehan A., Mostafavi S. (2022) Building Resilient Communities Over Time. In: Brears R. (eds) The Palgrave Encyclopedia of Urban and Regional Futures. Palgrave Macmillan, Cham. | ENCYCLOPEDIA ENTRY |
| 2020 | P_10 | Adaptive City Car, Sponsored by AUDI Mostafavi, S. , Kretzer. (2020) "Adaptive City Car, Collaborative Studio Sponsored by AUDI automotive Manufacturing Company, Video submitted and published in ACADIA 2020. | PEER-REVIEWED VIDEO ACADIA 2020 |
| | P_09 | Bioplastic Robotic Materialization Mostafavi, S. , Kretzer. (2020) "Bioplastic Robotics materialization, Design to Robotic Production of Bio-degradable lamps", Collaborative course between Dessau Department of Design and Dessau Institute of Architecture, Video screened by Docu Team, Juried by ACADIA Committee. | PEER-REVIEWED VIDEO ACADIA 2020 |
| 2018 | P_08 | Multiple Interdisciplinary, Architectural Robotics and Graduation projects of DARS projects in Next to Bauhaus 2 Mostafavi, S. et al. (2020), Nine selected Architectural Design and Robotic Production DARS studio projects "Next to Bauhaus 2 - Anhalt university of Applied Sciences, Book Edited by Matthias Hohne and Natascha Meuser, Dessauer Schule. Dessau School of Architecture. | PROJECT VIDEO DDD 2018 |
| 2018 | P_07 | Bioplastic Robotic Materialization Mostafavi, S. , Kretzer. (2018) "Bioplastic Robotics materialization, Design to Robotic Production of Bio-degradable lamps", Collaborative course between Dessau Department of Design and Dessau Institute of Architecture, Video screened by Docu Team, Published by Dessau Department of Design. | PROJECT VIDEO DDD 2018 |

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| P_06 | Concrete Hybridity | PEER-REVIEWED VIDEO ROB ARCH 2018 |
| | Mostafavi, S. , Bier. H., Moharram, M.S., Hesham, H., El-Meligy, M., Du. C. (2018) "Design to Robotic Production of Intertwined Hybrid of Polystyrene and Fiber Reinforced Concrete" has been accepted and presented at Rob Arch 2018 (robarch2018.org) through the Robots in Architecture 2018 at ETH Zurich Call for Videos. | |
| P_05 | Design to Robotic Production and Operations | BOOK CHAPTER DIA |
| | Bier. H., Mostafavi, S. (2017) Design to Robotic Production and Operations, Chapter in Architecture and the Machinic, Experimental Encounters of man with Architecture Computation and Robotics, edited by Arie Graafland and Dulmini Perera, pp. 86–91. DIA Architecture School, Dessau. | |
| 2017 | P_04 Robotic 3D Printing, Scalable Porosity Project | BOOK OF ABSTRACT HYX |
| | Mostafavi, S. , Bier, S., Anton, A., Bodea, S., Gali, M. (2017). Robotic 3D Printing in Imprimer le Monde, Print The world, Mutations and Creation, Centre Pompidou Exhibition Book. | |
| 2018 | P_03 Informed Porosity | PEER-REVIEWED VIDEO ROB ARCH 2016 |
| | Mostafavi S. , Bier H.H., Anton A.M., Bodea S., et al. (2018) "Informed Porosity" has been accepted and presented at Rob Arch 2018 (robarch2018.org) through the Robots in Architecture 2018 at University of Sydney Call for Videos. | |
| 2018 | P_02 Continuous Variation – Informed Robotic 3D Printing | PEER-REVIEWED VIDEO ROB ARCH 2016 |
| | Mostafavi S. , Bier H.H., Anton A.M., Bodea S., Oosterhuis, K. et al. (2018) "Continuous Variation – Informed Robotic 3D Printing " has been accepted and presented at Rob Arch 2018 (robarch2018.org) through the Robots in Architecture 2018 at University of Sydney Call for Videos. | |
| 2014 | P_01 Robotically Driven Construction of Buildings project on 4TU Publication, Lighthouse 2014 | MAGAZINE 4TU |
| | TU Delft, Hyperbody Robotic building team (2014) Robotically Driven Construction of Buildings Construction essay for 3TU.Bouw Newspaper, Lighthouse 2014, week, Utrecht, The Netherlands. | |

TEACHING EXPERIENCE

DESIGN STUDIOS

| | | | |
|------|-----------------------|--|------------------|
| 2022 | S_28 FALL | Studio Instructor, Arch 5600: Indigenous Ecologies | TTU M. ARCH. 3 |
| | | Integrated coordinated design studio, graduate degree program in Architecture, 2nd Year. College of Architecture, Texas Tech University. | |
| | S_27 SPRING-SUMMER | Graduation Research by Design Studio | UOH MA. 4 |
| | | Master of Art Graduation studio, University of Holderfield, School of Arts and Humanities, UK | |
| 2021 | S_26 FALL | Responsible Coordinator, Re-Printing Parasitic Architecture in Port Cities | DIA M. ARCH. 1 |
| | | Design to Production studio focused on Additive Manufacturing, Cobotic Assembly, Circular Construction and Regenerative design of Port Cities. | |
| 2020 | S_25 SPRING | Responsible Coordinator and Thesis Advisor, Cyber Craft 4.0 studio, DARS graduation design studio | DIA M. ARCH. 4 |

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| | | DARS, Design-Architectural Robotics & Systems studio, with the theme Crafts and Emerging Technologies, thesis advisor of nine graduates, Dessau International Graduate School of Architecture. | |
| 2019 | S_24 FALL | Responsible Coordinator and Tutor, Cyber Craft 4.0 Vertical 1st year 2nd year thesis studio focusing on digitalization and revitalization of local crafts. Exploring the positive impact of 4th industrial revolution on various craft in different socio-cultural and post-industrial contexts. Exchange excursion to Dutch Design Week, Amsterdam University of Applied Science Robotic Lab and Aectual 3d printing compan | DIA M. ARCH. 1&3 |
| | S_23 SPRING | Design and Research Thesis Advisor, graduation design studio Thesis advisor graduating master students, Architectural Engineering, AE+T, BK-City, TU Delft | TUD M. SC. 4 |
| | S_22 SPRING | Responsible Coordinator and Tutor, Adaptive City Car, Sponsored by AUDI Interdisciplinary collaborative Studio with Dessau Department of Design, Design to Robotic Production and interactive systems integration in Adaptive City Car, Dessau Institute of Architecture & Dessau Department of Design. With excursion to Stuttgart Mercedes Benz and Porsche Museums | DIA M. ARCH. 2 DDD B. DES. |
| | S_21 SPRING | Design and Research Thesis Advisor, 100 YBP, graduation design studio Thesis advisor graduating master students, Robotic Building, Architectural Engineering Chair, BK-City, TU Delft | TUD M. SC. 4 |
| | S_20 SPRING | Responsible Coordinator and Thesis Advisor of 100 Years Bauhaus, DARS graduation design studio DARS, Design-Architectural Robotics & Systems studio, with the theme of 100 years Bauhaus, thesis advisor of nine graduates, Dessau International Graduate School of Architecture. Exchange excursion to ICD/ITKE Stuttgart, and Buga fair at Bundesgartenschau, Heillbronn. | DIA M. ARCH. 4 |
| 2018 | S_19 FALL | Responsible Coordinator Tutor of 100 Years Bauhaus DARS design to robotic production studio DARS, Design-Architectural Robotics & Systems studio, with the theme of 100 years Bauhaus pavilion, Design to Production of one-to-one pavilion prototypes, Dessau International Graduate School of Architecture | DIA M. ARCH. 1&3 |
| | S_18 FALL | Coordinator of Design Materialization workshops and Thesis Advisor, 100 YBP, graduation design studio Leading Joint workshops in Delft and Dessau, Thesis advisor of graduating master students, Robotic Building, Architectural Engineering Chair, BK-City, TU Delft | TUD M. SC. 3 |
| | S_17 SPRING | Responsible Coordinator and Thesis Advisor of Interactive Urban Furniture, graduation design studio Design to Robotic Production studio, Thesis advisor graduates, Dessau International Graduate School of Architecture | DIA M. ARCH. 4 |
| | S_16 SPRING | Studio Coordinator and Tutor of Cyber-Physical design to robotic production studio Co-Leading and tutoring design to robotic production workshop and studio on Cyber Physical Systems, Robotic Building, Hyperbody, BK City, TU Delft | TUD M. SC. 2 |
| | S_15 SPRING | Responsible Coordinator and Tutor of Cyber-Physical design to robotic production studio | DIA M. ARCH. 2 |

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| | | DARS, Design-Architectural Robotics & Systems studio, Cyber Physical Systems, Design to Production of one-to-one Prototypes, Dessau International Graduate School of Architecture | |
| | S_14 SPRING | Design and Research Thesis Advisor, Interactive Urban Furniture, graduation design studio | TUD M. Sc. 4 |
| | | Thesis advisor graduating master students, Robotic Building, Hyperbody Group, BK-City, TU Delft | |
| 2017 | S_13 FALL | Coordinator of Design Materialization workshops and Thesis Advisor, Interactive Urban Furniture, graduation design studio | TUD M. Sc. 3 |
| | | Leading Joint workshops in Delft and Dessau, Thesis advisor of graduating master students, Robotic Building, Hyperbody Chair, BK-City, TU Delft | |
| | S_12 FALL | Studio Coordinator and Tutor of Interactive Urban Furniture design to robotic production studio | TUD M. Sc. 1 |
| | | Co-Leading and tutoring design to robotic production workshop and studio, Robotic Building, Hyperbody, BK City, TU Delft | |
| | S_11 FALL | Studio Instructor and workshops Coordinator, MSc 3 Design Studio, Continuous Variation, TU Delft | DIA M. ARCH. 3 |
| | | Co-Leading and tutoring design to robotic production workshop and studio on Structurally Informed Robotic 3D printing in architecture. | |
| | S_10 SPRING | Responsible Coordinator and Tutor of Interactive Prototyping design to robotic production studio | DIA M. ARCH. 2 |
| | | Leading the studio and coordinating design to production of one-to-one prototypes workshops, Parallel studio with TU Delft with Dessau International Graduate School of Architecture | |
| | S_09 SPRING | Design and Research Thesis Advisor, Smart Environments, graduation design studio | TUD M. Sc. 4 |
| | | Thesis advisor graduating master students, Robotic Building, Hyperbody Group, BK-City, TU Delft | |
| | S_08 SPRING | Studio Coordinator and Tutor of Interactive Prototyping Design studio | TUD M. Sc. 2 |
| | | Leading and tutoring design to robotic production workshop and studio of Interactive Prototyping, Robotic Building, Hyperbody, BK City, TU Delft | |
| 2016 | S_07 FALL | Coordinator of Design Materialization workshops and Thesis Advisor, Next Generation Building RBSE, graduation design studio | TUD M. Sc. 3 |
| | | Leading Design to Robotic Production workshops and Thesis advisor of graduating master students, Robotic Building, Hyperbody Chair, BK-City, TU Delft | |
| | S_06 SPRING | Design and Research Thesis Advisor, Rotterdam Expo 2025, graduation design studio | TUD M. Sc. 4 |
| | | Thesis advisor graduating master students, Robotic Building, Hyperbody Group, BK-City, TU Delft | |
| | S_05 SPRING | Studio Coordinator and Tutor of Game Set Match design to robotic production studio | TUD M. Sc. 2 |
| | | Co-Leading and tutoring design to robotic production workshop and studio, Robotic Building, Hyperbody, BK City, TU Delft | |
| 2015 | S_04 FALL | Studio Instructor and workshops Coordinator, EXPO 2025 Design Studio | TUD M. Sc. 3 |
| | | Co-Leading and tutoring design to robotic production workshop and studio on Structurally Informed Robotic 3D printing in architecture | |

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| S_03 SPRING | Design and Research Thesis Advisor, Continuous Variation: Scalable Porosity graduation design studio | TUD M. SC. 4 |
| | Thesis advisor graduating master students, Robotic Building, Hyperbody Group, BK-City, TU Delft | |
| S_02 SPRING | Studio Coordinator and Tutor of Robotic Environments design to robotic production studio | TUD M. SC. 2 |
| | Co-Leading and tutoring design to robotic production workshop and studio, Robotic Building, Hyperbody, BK City, TU Delft | |
| 2014 S_01 FALL | Studio Instructor and workshops Coordinator, Continuous Variation Design Studio | TUD M. SC. 3 |
| | Co-Leading and tutoring design to robotic production workshop & studio on Structurally Informed Robotic 3D printing in architecture, BK City, TU Delft | |

SEMINARS, ELECTIVES AND COMPULSORY COURSES

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| 2022 C_41 | Arch5354, Inclusive Automation and Craftable Realities | TTU GRAD. |
| | Introduction to Advanced Design Computation and Robotic Fabrication Intelligence | |
| C_40 | Arch7000, Independent Research | TTU GRAD. |
| | Collaborative Research graduate level course including theoretical and research by design components | |
| C_39 | RIBA Practical Training Year out | UOH M.ARCH. 1 |
| | Coordinating the period of practical training Year 1 of professional Master of Architecture Course for RIBA accredited training | |
| 2021 C_38 | Cobotic Materialization of Adaptive Spaces | DIA M. ARCH. DDD B. DES. |
| | Collaborative CAD-logic/Elective between Dessau Institute of Architecture and Dessau Department of Design / with focus on Collaborative Robotics, Smart Assembly and Human Robot Collaboration | |
| 2020 C_37 | Responsible Coordinator and tutor, Pandemic Wearable Architecture, CAD-logic, Dessau Institute of Architecture at Bauhaus | DIA M. ARCH. |
| | Introduction to Advanced Computational Geometry and 3D Printing, Design and Research-driven compulsory aiming at Designing and Prototyping of Protective Wearables | |
| 2019 C_36 | Responsible Coordinator and tutor, Collaborative Elective, Quantify Me, Data Driven Materialization | DIA M. ARCH. DDD B. DES. |
| | Collaborative project between Dessau Institute of Architecture and Dessau Department of Design / with focus on individualization, Data tracking, Data Processing and Data Driven Art, Design and Materialization | |
| C_35 | Responsible Coordinator and tutor, CAD-logic, Architectural Robotics, Dessau Institute of Architecture at Bauhaus | DIA M. ARCH. |
| | Introduction to computation and robotic fabrication, Compulsory Course | |
| C_34 | Responsible Coordinator and tutor, Elective, Fiberglass Architecture, Dessau Institute of Architecture at Bauhaus | DIA M. ARCH. |
| | Design to Robotic Production of Fiberglass Music Festival Table and Architectural Components | |

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| | C_33 | Responsible Coordinator and tutor, CAD-logic, Architectural Robotics, Dessau Institute of Architecture at Bauhaus | DIA M. ARCH. |
| | | Introduction to computation and robotic fabrication, Compulsory Course | |
| 2018 | C_32 | Coordinating and Tutoring, Architectural Studies, MSc 3, TU Delft | DIA M. ARCH. |
| | | Lecturing and leading workshops on computation and application of robotics in design to production | |
| | C_31 | Responsible Coordinator and tutor, CAD-Logic, Architectural Robotics, Dessau Institute of Architecture at Bauhaus | DIA M. ARCH. |
| | | Introduction to background and know-how of robotic production in the creative industry and architecture, Compulsory Course | |
| | C_30 | Responsible Coordinator and tutor, Elective, Bioplastic Robotic Materialization, Dessau Institute of Architecture at Bauhaus | DIA M. ARCH. DDD B. DES. |
| | | Interdisciplinary collaborative course with Dessau Department of Design, Design to Robotic Production of Biodegradable Lamps | |
| 2017 | C_29 | Responsible Coordinator and tutor, CAD-logic, Robotic Fabrication, Dessau Institute of Architecture Bauhaus | DIA M. ARCH. |
| | | Advanced design computation and robotic fabrication, Compulsory Course | |
| | C_28 | Responsible Coordinator and tutor, Architectural robotics, Dessau Institute of Architecture Bauhaus | DIA M. ARCH. |
| | | Introduction to computation design and robotic fabrication, Elective | |
| | C_27 | Coordinating and Tutoring, Architectural Studies, Non-Standard Buildings, MSc 3, TU Delft | TUD M. SC. |
| | | Lecturing and leading workshops on computation and application of robotics in design to production | |
| | C_26 | Coordinating and Tutoring Technical Studies: Interlaced Design Strategies, MSc 1 & 3, TU Delft | TUD M. SC. |
| | | Workshops on computational design methods, techniques, and case studies | |
| | C_25 | Coordinating and tutoring, Architectural Studies, MSc 2, TU Delft | TUD M. SC. |
| | | Lecturing and Leading workshops on computation and application of robotics in design to production processes | |
| | C_24 | Coordinating and Tutoring, 1:1 Interactive Architecture Prototypes, MSc3, TU Delft | DIA M. ARCH. |
| | | Design to Prototyping and Creative making workshops | |
| 2016 | C_23 | Responsible Coordinator and tutor, CAD-logic, Robotic Fabrication, Dessau Institute of Architecture at Bauhaus | DIA M. ARCH. |
| | | Introduction to computation and robotic fabrication, Compulsory Course | |
| | C_22 | Coordinating and Tutoring Architectural Studies, MSc 1 & 3, TU Delft | TUD M. SC. |
| | | Lecturing and leading workshops on computation and application of robotics in design to production | |
| | C_21 | Tutoring, Interlaced Design Strategies, MSc 1&3, TU Delft | TUD M. SC. |
| | | Workshops on computational design methods, techniques, and case studies | |
| | C_20 | Coordinating and tutoring Architectural Studies, MSc 2 & 3, TU Delft | TUD M. SC. |
| | | Lecturing and leading workshops on computation and application of robotics in design to production | |

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| | C_19 | Instructor at 1:1 Interactive Architecture Prototypes, MSc3, TU Delft Design to Prototyping and Creative making workshops | TUD M. SC. |
| 2015 | C_18 | Coordinating and tutoring Architectural Studies, MSc 2 & 3, TU Delft Lecturing and leading workshops on computation and application of robotics in design to production | TUD M. SC. |
| | C_17 | Coordinating and tutoring Architectural Studies, MSc 2, TU Delft Lecturing and co-leading workshops on computation and application of robotics in design to production processes | TUD M. SC. |
| | C_16 | Coordinating and Tutoring Architectural Studies, MSc3, TU Delft Lecture and co-leading workshop, complex systems and parametric design | TUD M. SC. |
| | C_15 | Instructor at Digital Paradigms, MSc 3, TU Delft Lectures Methods and Theories of Digital Design and Architecture | TUD M. SC. |
| 2014 | C_14 | Coordinating and Tutoring Architectural Studies MSc 3, TU Delft Leading design to robotic production workshop, Continuous Variation | TUD M. SC. |
| | C_13 | Coordinating and Tutoring Architectural Studies, MSc 2, TU Delft Lecturing and Co-leading workshop on performance-driven design methods | TUD M. SC. |
| | C_12 | Instructor at Scientific Research on Non-standard and Interactive Architecture, MSc 3, TU Delft Lectures on Methods and Theories of Digital Design and Architecture | TUD M. SC. |
| | C_11 | Instructor, Interlaced Design Strategies, MSc 1&3, TU Delft Workshops on computational design methods, techniques and case studies | TUD M. SC. |
| 2013 | C_10 | Coordinating and Tutoring Architectural Studies, MSc 3, TU Delft Lecturing and co-leading workshop at the Climatic Ecologies studio, on generative systems and performance-driven design | TUD M. SC. |
| | C_09 | Instructor at Media Studies: Interactive Environments, MSc 3, TU Delft Workshops on computational design methods, techniques and case studies | TUD M. SC. |
| | C_08 | Instructor, 1:1 Interactive Architecture Prototypes, MSc3, TU Delft Design to Prototyping and Creative making workshops | TUD M. SC. |
| | C_07 | Lecturer at Media Studies: Interactive Environments, MSc 3, TU Delft On computational design methods, theories and applications | TUD M. SC. |
| 2012 | C_06 | Instructor, Architectural Studies Hyperbody, MSc 3, TU Delft Workshop on informed geometry and voxelization methods | TUD M. SC. |
| 2011 | C_05 | Instructor, Architectural Studies Hyperbody, MSc 1, TU Delft Workshop and lecture on associative geometry and parametric design | TUD M. SC. |
| 2010 | C_04 | Tutor, Design Studio B.Arch. 2, Azad University Central Branch Tutoring design studios and giving seminar lectures on design methods | AUCTB B. ARCH. |
| 2009 | C_03 | Teaching Assistant, Tehran University of Art, Design Theories and Methods M. Arch. 1 Lectures on CAD/CAM, representation and diagrammatic reasoning | TUA M. ARCH. |
| | C_02 | Teaching Assistant, Tehran University of Art, B. Arch. 3 Design Studio Supporting lectures, workshops, and design tutoring | UA B. ARCH. |

2008 C_01 **Teaching Assistant, Tehran University of Art, B. Arch. 1 Design Studio** TUA | B. ARCH.
Supporting Lectures, workshops, and design tutoring

SUPERVISED THESIS PROJECTS

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| 2022 | ST_54 | MONTHER | Second Mentor, DIA Bauhaus, M.A. Architecture An investigation of the city's architectural extensions in Jordan, with the research focus on application of Machine Learning and 3D point clouds |
| | ST_53 | AARON | External Advisor, University of Huddersfield, Ph.D., UoH, UK Upcycling plastic wasted for environmentally informed building envelope circular construction in Nigeria to improve thermal comfort. |
| 2021 | ST_52 | NILOUFAR RAHIMI | Main Mentor, DIA Bauhaus, M.A. Architecture EISFABRIK, Street Art Foundation, Speculative Symbiosis Between Art and Abandoned Berlin's Urban Ruins. |
| | ST_51 | EGOR KUZMIN | Second Mentor, DIA Bauhaus, M.A. Architecture Crinitus / Mobile Lunar base, LEAN studio supported by BMW. |
| | ST_50 | ASHISH VARSHITH | Main Mentor, DIA Bauhaus, M.A. Architecture Symmetrically Asymmetrical, Museum of Indian Arts and Crafts, Mumbai. |
| | ST_49 | IBRAHIM HELAL | Main Mentor, DIA Bauhaus, M.A. Architecture Shelter 4.0, A human shelter for the 4 th industry Revolution, Berlin. |
| 2020 | ST_48 | NEADY ODUOR | Main Mentor, DIA Bauhaus, M.A. Architecture Woman's Craft Village, A Systems approach to Design Justice, Kenya Nominated project for Robert Oxman best thesis project award. |
| | ST_47 | ROSANNE LE ROY | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Joining Forces, Mixed use complex building in Delft |
| | ST_47 | EDWIN VERMEER | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Delta Mars, A Resilient Subsurface Mars Habitat |
| | ST_46 | GULYUZ RUZIBOEVA | Main Mentor, DIA Bauhaus, M.A. Architecture Mahala, 3D printed Neighborhood in Bukhara, Uzbekistan |
| | ST_45 | MO FARID AHMED | Main Mentor, DIA Bauhaus, M.A. Architecture Fusion of Bio/Artificial Hybrid systems in the City landmark of San Jose |
| | ST_44 | SAEED KHALID | Main Mentor, DIA Bauhaus, M.A. Architecture Revisiting Mashrabiya, Informed Shell System for Mixed use complexes |
| | ST_43 | HOSSAMEDIN BADR | Main Mentor, DIA Bauhaus, M.A. Architecture Generative Sandscape: Design By Simulation, Tourism Village in Siwa-Egypt |
| | ST_42 | ALEXANDRA SVIRIDOVA | Second Mentor, Dessau Department of Design, M.A. in Integrated Design Evolving, Generative on Demand Jewelry Design to Delivery |
| | ST_41 | GULFIIA KUTLAKHMETOVA | Main Mentor, DIA Bauhaus, M.A. Architecture Shelter Unit, rethinking refugee living space organization, Akçakale, turkey |
| | ST_40 | FLORIS VAN BUREN | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture |

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| | | | Bio-Diversity Research and Science Center |
| | ST_39 | ROSSANE LE ROUJ | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Delft Connects, Mixed used Residential and Community Center |
| | ST_38 | HIDDE MANDERS | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Rethinking the role of Bauhaus Master, The New School, Dessau, Germany |
| | ST_37 | MARY BERENDSON VILLANUEVA | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Responsive Healing Environments, Biomimicry and Interactive Spaces in Amsterdam AMC Hospital |
| | ST_36 | ADIB KHAEZ | Main Mentor, DIA Bauhaus, M.A. Architecture Discrete to Continuous Materialization, Berlin Hyperloop Station, Graduated with Highest Distinction |
| 2019 | ST_35 | RINZE WASSENAAR | Research Mentor, TU Delft, BK, M.Sc. Architecture Computed Density: Inner city housing using computational design and robotic fabrication (Cum laude) |
| | ST_34 | TURKUAZ NACAFI | Research Mentor, TU Delft, BK, M.Sc. Architecture Bridging Heterotopia: Social Integration & empathic experience in Rotterdam |
| | ST_33 | GINEVRA NAZZARRI | Design and Research Mentor, TU Delft, BK, M.Sc. Building Technology Re Mod: Reuse Plastic and Robotic Modifications (Cum laude) |
| | ST_32 | IDIL GUMRUK | Research Mentor, TU Delft, BK, M.Sc. Building Technology A Generative Design Approach Using Bioplastics and Earth. |
| | ST_31 | BEREND RAAPHORST | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Continuous Workspaces: Redevelopment of the Marconi towers. |
| | ST_30 | MOHAMMED MANSOUR | Main Mentor, DIA Bauhaus, M.A. Architecture Biotope Generative System, Strategy for integrating a contemporary housing community with nature in Florida, USA. (Highest Distinction, Shortlisted for Robert Oxman Best Thesis Award) |
| | ST_29 | IWAN MAZLAN | Main Mentor, DIA Bauhaus, M.A. Architecture House Customizer, Community Housing Kuala Lumpur, Research focus customizable prefab robotically produced reciprocal wooden structures. (Highest Distinction, Nominated for Robert Oxman Best Thesis Award) |
| | ST_28 | VALMIR KASTRATI | Main Mentor, DIA Bauhaus, M.A. Architecture Acoustic Performing Opera and Ballet Hall in Kosovo, Prishtina, Research focus on robotically produced wooden spatial structures. |
| | ST_27 | ARMO HAMEAD | Main Mentor, DIA Bauhaus, M.A. Architecture Termopology Skin, Design: Cairo University Research Centre, Research focus wind-based computational fluid dynamics form-finding methods and Robotic Incremental Sheet Metal Forming (Highest Distinction) |
| | ST_26 | KAMAL ZAKI | Main Mentor, DIA Bauhaus, M.A. Architecture Copper Forming in Old Cairo, Research focus on Copper Craft and 2D to 3D forming and digital craftsmanship (Highest distinction) |
| | ST_25 | RIFAT MUSHFIQUE | Main Mentor, DIA Bauhaus, M.A. Architecture One Hundred Years Bauhaus Pavilion, Material Based Responsive Systems |

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| | ST_24 | MUHN MANNAE | Main Mentor, DIA Bauhaus, M.A. Architecture Salt Architecture, mixed used complex in Tripoli |
| | ST_23 | DINESH RAJ | Main Mentor, DIA Bauhaus, M.A. Architecture LEAN design to construction flexible system, studio supported by BMW |
| | ST_22 | MOHAMMED WASEEM | Main Mentor, DIA Bauhaus, M.A. Architecture LEAN design to construction flexible system, studio supported by BMW group |
| | ST_21 | HEEYOUN KIM | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Permeable Playground: Bauhaus fabrication Hub (Cum laude) |
| | ST_20 | ROEL WESTRIK | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Synesthesia: An Exploration of Architectural Experience as Expressed by Music |
| | ST_19 | KARIM DAW | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Discretized Procedural Timber: An Investigation into robotic manufacturing & assembly for residential timber construction (Cum laude) |
| | ST_18 | ERIK ZANETTI | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Experimental Society Lab (Cum laude) |
| 2018 | ST_17 | YU CHOU CHIANG | Daily Supervisor and Advisor, TU Delft, BK, Ph.D. Daily supervision of Ph.D. project from Spring 2017 to Fall 2018. Thesis on Bi-stable mechanism and free form shell structure. Advising the candidate on methods of parametrization, advanced manufacturing, robotic assembly and framing the research methodology. |
| | | MARCO GALI | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture AFDR Architecture for Disaster Relief: Design to robotic production system for disaster management |
| | ST_16 | MAHMOUD MELIGY | Design and Research Mentor, DIA Bauhaus, M.A. Architecture Divergent Tectonics, Design Optimization to Robotic Production Framework |
| | ST_15 | JILL DUAN | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture From Non-place to H[ai]yper-place: Shanghai metro station design |
| | ST_14 | ARISE WAN | Main Mentor, DIA Bauhaus, M.A. Architecture Robotic Architecture for Future Space Exploration |
| | ST_13 | MOHAMMED SAAD | Main Mentor, DIA Bauhaus, M.A. Architecture Berlin Start-up Hub, Data-Driven Hybrid Structures |
| | ST_12 | HOSSAM HESHAM | Main Mentor, DIA Bauhaus, M.A. Architecture High Dimensional Design Space, Research on Machine Learning and Robotic Production of Bamboo Structures |
| | ST_11 | CHONG DU | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Symbiosis in Urban Village (Honorable Mention) |
| | ST_10 | ORI GILBOA | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Cinema Urban Space |
| | ST_09 | ROLF HUIJGEN | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture The Knowledge Factory |
| | ST_08 | OLAV VAN DER DOORN | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture |

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| | | | Factory of the Future: Printing in space |
| | ST_07 | DANIEL FISCHER | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Robotic wood crafting: An arctic shelter in the Canadian tundra (Cum laude) |
| | ST_06 | TANYA SOMOVA | Research Mentor, TU Delft, BK, M.Sc. Architecture Maximized Space Usage |
| | ST_05 | BENJAMIN KEMPER | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Running Out of Gas on The Fast Lane: Repurpose of abandoned drilling rigs in the North Sea (Cum laude, Nominated for Archiprix) |
| 2017 | ST_04 | NICK VAN DORP | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Ascending Integration Centre |
| | ST_03 | RALPH CLOOT | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Informed Porosity (Cum laude) |
| 2016 | ST_02 | ARWIN HIDDING | Design and Research Mentor, TU Delft, BK, M.Sc. Architecture Continuous Exploration (Cum laude) |
| 2014 | ST_01 | MATTHEW TANTII | Research Mentor, TU Delft, BK, M.Sc. Architecture Robotically Aided Regionalism – Reawakening stone stereotomy through robotic fabrication |

SELECTED GRANTED FUNDS AND AWARDS

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| 2021 DF AWARDS | Best Emerging Scholar 2021 One of the four recipients of Best Emerging Scholar—DigitalFUTURES Young Award 2021. |
| 2020 ARCHITIZER AWARDS | 1st prize in Architizer Awards 2020 SOFTSTONE by SETUParchitecture, Architect in charge: Sina Mostafavi, 1 st prize winner in the category of architecture + stone and special mention in the category of office-commercials mid-rise 5-15 story buildings |
| 2019 AUDI-DE | Audi funding for design to production of Adaptive City Car project 7.5 K Euro fund provided for collaborative studio between and Dessau Department of Design Dessau Institute of Architecture |
| 2018 2A AWARDS | Winner of 2A Europe Asia Continental Architecture Awards at IAAC Barcelona SOFTSTONE by SETUParchitecture, Architect in charge: Sina Mostafavi, winner in category of office, commercial and business among 437 entries in 7 categories, IAAC, Barcelona 2018 |
| 2018 DIA BAUHAUS | University fund by Dessau Institute of Architecture for 100 Year Bauhaus pavilion 4 K Euro for materials, tools and equipment by DIA Bauhaus for prototyping pavilions. |
| 2014 4TU-NL | 4TU Grant for the Robotically Driven Construction of Buildings project 50 K Euro shared grant, Co-writing the application, TU Delft BK City, CITG and TU Eindhoven teams 2014. Co-leading the project at TU Delft for Robotic 3D printing. |
| 2014 COMPETITION | 1st prize of Architectural Design Competition Mixed Use portal building and masterplan Leader of the design team for the Saipa press car factory competition at Ray City, winning the design commission of 40000 m ² nonindustrial/cultural/mixed use buildings. |
| 2014 COMPETITION | 1st prize for the project submission at Tehran Art International Festival Ceramics Medullar bricks project winner project at Tehran International Art Festival. |

SELECTED GRANTS WRITING AND LEADERSHIP EXPERIENCE

- 2020 **Theme Leader at VRI, Virtual Research Institute, UAE grant with International Spokes**
70 million AED in cash plus ten percent in Kind to be granted to the six themes supporting Multiple senior researchers, researchers and PhD positions and equipment and materials as planned and as needed for the duration of five years. (Submitted for the first round)
- 2017 **Co-Author at EU Horizon 2020, Advanced manufacturing and processing**
Writing, Set the connections and agreements with Automation and Building industries. (Submitted for the first round)
- 2016 **Chief Co-Author at NWO, Creative Industries, The Netherlands**
Writing and structuring the content, Set the collaborative frameworks with Automation and Creative industries, 600 K Euros Proposal evaluated with high grades reviewed by experts. (Marked with highest score in specialty review, submitted for the second-round review)
- 2014 **Chief Co-Author at STW, Open Technology**
Writing and structuring the content, Set the collaborative frameworks with Automation and Creative industries, National university and institutions, 500 K Euros Proposal evaluated with highest grades given by experts. (Marked with highest score in specialty review, submitted for the second-round review)

SELECTED INVITED TALKS, PANELS AND PRESENTATIONS

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| 2022 | T_60 | Invited Talk and Panel, Teulo CPD Platform Architectural Robotics as part of Architectural Intelligence in Teulo International learning CPD platform in New Zealand. | TEULO NEW ZEALAND |
| | T_61 | Computational Next, Parametric Architecture Magazine Design Morphine and Parametric Architecture Academy | PARAMETRIC ARCHITECTURE INTERNATIONAL |
| | T_59 | Invited Lecture, University Putra Malaysia (UPM), Malaysia Building Community Resilience in Kenya, International Symposium: Post-Pandemic Urban Revolution, Resilience, Autonomy & Community Care | UPM KUALA LUMPUR |
| | T_58 | Invited presentation, Augsburg University of Applied Sciences Code and Build: Making Complexity Manageable | HS AUGSBURG AUGSBURG |
| | T_57 | Invited presentation, University of Kansas Hybrid Setups and Computational, Material & Fabrication intelligence | U. KANSAS LAWRENCE |
| | T_56 | Invited presentation, University of North Carolina at Charlotte Co-Robotics, Co-Matters & Co-Run; Digital Design & Architectural Robotics | UNCC CHARLOTTE |
| 2021 | T_55 | Invited talk, University of Queensland in Brisbane Digital Architecture and Robotic Fabrication, Part of Material and Making course, Open lecture to MSc & Ph.D. students at UQ Brisbane Australia. | UQ BRISBANE |
| | T_54 | Invited presentation, University of Laval, école d'architecture Practice, Research and Pedagogy and Architectural Materialization systems. | U. LAVAL QUEBEC |
| | T_53 | Invited Keynote, AA Visiting School Toronto Computational, Material and Fabrication intelligence at Architectural Association Visiting School Toronto/Boston Supported by Autodesk. | AA-VS TORONTO |
| | T_52 | Invited Lecture, Amsterdam University of Applied Sciences Minor of Robotic Production and Circular Materials Lecture Series. | HVA AMSTERDAM |
| | T_51 | Awards Speech, Inclusive Futures Closing Ceremony Best Emerging Scholar Emerging Awards Presentation. | DIGITAL FUTURES INTERNATIONAL |

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| | T_50 | Invited talk, Digital Futures Doctoral Consortium Doctoral research invited presentations at Inclusive Futures 2021 DF Event. | DIGITAL FUTURES SHANGHAI-TONGJI |
| | T_49 | Invited Master Class talks, Architectural Association London Emerging Technology Master's track of AA school Lecture Series, Lecture Title: Matters, Modes, Models and Machines. | AA LONDON EMTECH |
| | T_48 | Invited Keynote, ICON Best 2021 International Conference Emerging modalities of Research, Education, and Practice in the era of Industry 4.0. at SRM Institute of Science and Technology, India. | SRMIST KATTANKULATHUR |
| 2020 | T_47 | Invited Lecture, Lund University Hybrid Architectural Robotic Matters: Lund University Sweden, Faculty of ABE, Lecture open to staffs and students | LUND UNIVERSITY LUND |
| | T_46 | Invited Talk and Panel, by FRAME & Parametricism at Dutch Design Week, CLOSING the GAP, sessions on Fabricated and Interactive Experiences organized by Parametricism platform and FRAME magazine at DDW20 | PARAMETRICISM DDW |
| | T_45 | Invited Presentation and Panel, Digital Futures Robotic Fabrication session at Digital Futures, Live Streamed Session | DIGITAL FUTURES LIVE-STREAMED |
| | T_44 | Invited Public Lecture, Karlsruhe Institute of Technology Integrated Design to Production Intelligence; Lecture at the KIT's Department of Architecture | KIT KARLSRUHE |
| | T_44 | Invited Lecture, The University of Hong Kong - Faculty of Architecture Architectural Robotics and Emerging Material Practices; Lecture at the HKU's Faculty of Architecture, Lecture open to staffs and students | HKU HONG KONG |
| | T_42 | Invited Public Lecture, Texas Tech's College of Architecture Hybrid Robotic Matters; Design Systems, Computation and Robotic Materialization of Architectural Hybridity | TTU-COA TEXAS |
| | T_41 | Invited Presentation, New York Institute of Technology Presentation to the Department of Architecture in NYIT's School of Architecture and Design | NYIT, SODA NEW YORK |
| | T_40 | Invited Presentation, Aarhus School of Architecture Lecture on Material Research Through Digital Fabrication | AARHUS SOA AARHUS |
| 2019 | T_39 | Invited talk at Arup Architecture Group The international symposium of Arup Architects, Lecture on Design Computation and Robotic Fabrication, practical and creative applications | ARUP AMSTERDAM |
| | T_38 | Panelist: Research or Intuition at Stiftung Bauhaus, Dessau 20 Years DIA international Symposium | STIFTUNG BAUHAUS DESSAU |
| | T_37 | Panelist, session at RoBouwtic, BK City Invited Panelist, Robotics in Architecture Symposium, Panel of Experts | TUD DELFT |
| | T_36 | Invited talk on Emerging Design Paradigms Emerging Design Paradigms and Architectural Robotics, at University of Tehran, Architectural Technologies Group | UT TEHRAN |
| 2018 | T_35 | Invited talk, Creative Machines, Explore Lab, TU Delft Robotic Matters in Design Research and Practice, in Creative Machines session organized by BK City explore lab | TUD DELFT |
| | T_34 | Inaugural speech, Design studios and courses, DIA Bauhaus Inaugural presentation on design studio, electives and compulsory courses. | DIA DESSAU |
| | T_33 | Invited talk, Earthy course at BK-City, TU Delft | TUD |

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| | | Architectural Robotics and Design Materialization; Modelling, Computation and Robotic Production of a New architectural materiality at Earthy studio | DELFT |
| | T_32 | Paper presentation, eCAADe 2018, Lodz University of Technology Robotic Materialization of Architectural Hybridity | LUT LODZ |
| | T_31 | Paper presentation, Rob Arch 2018, ETH Multimode, Subtractive – Additive, Robotic Materialization. | ETH ZURICH |
| | T_30 | Panelist, session at Rob Arch 2018, ETH Invited to Panel Session of Towards A Robotic Architecture at ETH Zurich | ETH ZURICH |
| | T_29 | Invited talk, Transitional Innovation, TU Delft Multimode Informed Robotic Materialization, Design, Research, Pedagogy | TUD DELFT |
| | T_28 | Inaugural speech, Design studios and courses, DIA Bauhaus Inaugural presentation, design studio, electives and compulsory courses. | DIA DESSAU |
| 2017 | T_27 | Invited talk at TU Delft-UCL Bartlett symposium at BK City TU Delft Informed Design to Robotic Production Processes, Multi materiality and Material Architecture. | TUD DELFT |
| | T_26 | Inaugural speech at Dessau Institute of Architecture at Bauhaus Introduction presentation on design studio, electives and compulsory courses at Dessau International Graduate School of Architecture | DIA DESSAU |
| | T_25 | Invited Talk, Multi-scale architectural patterns, at Patternitecture Presentation and panel at Petternitecture Event at Niavaran Artistic Creations Foundation | NACF TEHRAN |
| | T_24 | Invited to give a presentation at 123DV – Liong Lie Architects Giving a presentation on robotic materialization strategies and projects, discussing potential application for interior design and building | 123DV ROTTERDAM |
| 2016 | T_23 | Interview with Delta Magazine On print the world exhibition at Pompidou Centre in Paris, advance method of production in architecture | DELTA DELFT |
| | T_22 | Invited talk and panel at LABXCAP Symposium, Centre Pompidou International symposium Les formes du digital at the Centre Pompidou, Imprimer Le Monde Presentation and Panel Discussion | CGP PARIS |
| | T_21 | Invited talk at Digital Knowledge Symposium, École des Beaux-Arts École nationale supérieure d'architecture (Malaquais) Digital Knowledge on Robots and/or Architecture | ENSAPM PARIS |
| | T_20 | Invited talk, Next Generation Architecture KNAW Symposium KNAW, Royal Netherlands Academy of Knowledge, Design To Robotic Production Systems In Architecture | KNAW AMSTERDAM |
| | T_19 | Invited Keynote, AA visiting school Architectural Association Public Programme lecture, Architectural robotics or design factories, Istanbul Bilgi University | AA-VS ISTANBUL |
| 2015 | T_18 | Invited Talk, Game Set Match 3 Symposium, at BK-City Lecture on New Means of Design Materialization at Game Set Match 3 International Symposium | TUD DELFT |
| | T_17 | Invited Talk, Architectural Robotic Matters, at CRAFT | UT TEHRAN |

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| | | Presentation at CRAFT 2016 summer studio | |
| | T_16 | Paper presentation, Rob Arch 2016 | USYD SYDNEY |
| | | Materially Informed Design to Robotic Production, Robotic Fabrication in Architecture, Art and Design 2016 held at University of Sydney | |
| | T_15 | Invited talk on Creative Robotic Fabrication at Click NL | DDW EINDHOVEN |
| | | Dutch Design Week 2105, Click NL event, Eindhoven | |
| 2014 | T_14 | Paper presentation at eCAADe 2015 Conference TU Wien | TUW VIENNA |
| | | Informed Design to Production of Porous systems, at eCAADe Conference | |
| | T_13 | Invited Talk at KCAP architects and planners | KCAP ROTTERDAM |
| | | on future of architectural practices @ KCAP , Kees Christiaanse architects & planners -Rotterdam/Zurich | |
| | T_12 | Invited talk at InDeSem 2015, Re-Craft, BK city TU Delft | TUD DELFT |
| | | Presentation on Informed Design to production systems at International Design Seminar 2015 | |
| | T_11 | Interview with DELTA Magazine, Delft | DELTA DELFT |
| | | Discussing Materially Informed Design to Robotic Production (MID2RP) PhD research project, TU, Delft | |
| 2013 | T_10 | Presenting Robotic 3D Printing Project at Week Van De Bouw | GEVEL UTRECHT |
| | | Lecture at GEVEL Theatre Hall, Construction Week | |
| | T_09 | Presenting at Robo-Café, Delft Robotic Institute | DRI DELFT |
| | | Presenting the Additive Manufacturing in Architecture projects at Robo-Café, DRI, at Faculty of Architecture, TU Delft | |
| | T_08 | Presenting RDCB project at 3TU.Bouw review session | TUE EINDHOVEN |
| | | Lecture at Lighthouse, Robotically Driven Construction of Buildings, Project review session at TU Eindhoven | |
| | T_07 | Presenting for new applications ABB Benelux team | TUD DELFT |
| | | Lecture on robotic fabrication in architecture for the ABB Global New Application, at Hyperbody, TU Delft | |
| 2012 | T_06 | Invited talk at Algorithms and Actualization Symposium | AA LONDON |
| | | Lecture on Materially informed design to robotic production systems, Architectural Association Lecture Hall | |
| 2011 | T_05 | Paper presentation at EMCSR, TU Wien | TUW VIENNA |
| | | Architectural Ecologies Session, at European Meetings on Cybernetics and Systems Research | |
| 2010 | T_04 | Invited talk at Oriental Fabrication language workshop | UT TEHRAN |
| | | Lecture for design studio: rediscovering oriental fabrication language, University of Tehran, carbon-ideas fab lab, Faculty of fine Art | |
| 2009 | T_03 | Presenting at USC digital fabrication course | USC LOS ANGELES |
| | | Lecture on Materially informed design to robotic production systems, Faculty of architecture, University of Southern California | |
| | T_02 | Presenting at 6D Robots Symposium | TUD DELFT |
| | | Presenting the ongoing research projects by Hyperbody Robotic Building, Faculty of Aerospace Engineering, TU Delft | |

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| 2008 | T_01 | Paper Presentation at eCAADe 2013 Conference | TUD |
| | | Performance driven design and design information exchange, peer reviewed paper presentation | DELFT |

LED AND TAUGHT WORKSHOPS

| | | | |
|------|------|--|-----------------|
| 2022 | W_12 | ACADIA/NOMAS Introduction to Computational Design | ACADIA/NOMAS |
| | | Co-leading a specially organized workshop by ACADIA for NOMA (National Organization of Minority Architects) for Student Chapters participating in the 2022 NOMA Barbara G. Laurie Design Student Competition, 1-day online sessions with about 45 students and follow up tutorial session. | |
| 2021 | W_11 | Blended Hybridities | CAAI |
| | | Post Graduate Digital Modeling and Architectural Materialization Studio at CAAI Private School of Architecture, online sessions with 45 students, 10 Weeks, 1 Day per week. | |
| 2020 | W_10 | HI-Cy: Hybrid Intelligence Cy-Matters | DIGITAL FUTURES |
| | | 7 Days Coordinate and instruct Design Computation and Multi Material 3D Printing Invited Prototyping Workshop, 10 th Digital Futures Symposium, on-line with selected international participant in three time zones | |
| 2018 | W_09 | Multi-Material Robotic Assembly | SIMAUD |
| | | 1 Day Coordinate and instruct the Design to Robotic Production workshop, The 9th annual Symposium on Simulation for Architecture and Urban Design (SimAUD), BK-City, Delft, 1 Day | |
| 2017 | W_08 | Robotic Step Frames, TRAM summer studio, Tehran | TRAM |
| | | 21 Days Design to Robotic Production of Stair Prototypes, Tehran Robotic Architectural Matters, followed by public exhibitions and events | |
| 2015 | W_07 | Seamless Variation in Design to Robotic Production Processes | IASS |
| | | 3 Days Workshop at annual International Symposium, Annual International Symposia of the IASS, Amsterdam | |
| | W_06 | Continuous Variation workshop at Re.Craft InDeSem | INDESEM |
| | | 5 Days Workshop co-lead and co-coordinating the design to robotic production studio with Hyperbody, Robotic Building, International Design Seminar 2015, Supported by KUKA & ABB, BK City, Delft | |
| 2014 | W_05 | Robotic CNC Milling workshop, USC | USC |
| | | 2 Day Tutoring at University of Southern California, newly set robotic lab, USC, Faculty of Architecture, Los Angeles | |
| | W_04 | Coordinating ABB Robotics master classes | ABB-TUD |
| | | Monthly organizing robotic master classes with ABB of Benelux and RB team, Hyperbody, TU Delft | |
| 2013 | W_03 | Fabrication Driven Design methodology, eCAADe | ECAADE |
| | | 2 Days Co-Tutoring and co-organizing volumetric cutting robotic at RDM workshop and producing one-to-one prototypes, eCAADe 2013, RDM, Rotterdam | |
| | W_02 | Informed Parametric Design Systems | AUT |
| | | 6 Days Leading the workshop on design computation and form finding methods hosted by University of Art, The National Garden, Tehran | |

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| 2008 | W_01 | CAD/CAM series of lectures and workshops | UT-AUT |
| | | Weekly workshops Organizing and tutoring weekly series of workshops and lectures on design computation and digital fabrication, University of Tehran and Art University Education Centre, Tehran | |

SELECTED EXHIBITIONS

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|------|------|--|--------------------------|
| 2020 | E_16 | DARS Cyber Craft 4.0 & Interdisciplinary projects at Dutch Design Week | DDW EINDHOVEN |
| | | Invited exhibition of 6 selected projects, Curated by Parametricism at DDW | |
| 2019 | E_15 | Digital Generative Robotic Painting Exhibition, Dessau Design Show | DDS, DESSAU |
| | | 30 art boards exhibited in the public event day in Dessau Design Show, Final Results of the Quantify Me – Data Driven Materialization projects | |
| 2019 | E_14 | Stone Trace Table, Design, Research Production, Stone Design Exhibition | NCC, TEHRAN |
| | | Invited Exhibition at Object 3, Stone Design Exhibition of Iranian and Italian designer at Niavaran Cultural Centre. Tehran, October 2019 | |
| | E_13 | Adaptive City Car, Collaborative project sponsored by Audi | BAUHAUSSTRASE, DESSAU |
| | | Dessau campus fest, public event, car prototype demonstration, July 2019 | |
| | E_12 | HYBRID CHAIR, prototype, and video exhibition | NAI, ROTTERDAM |
| | | Common inn event, at Het Nieuwe Instituut, April 2019 | |
| 2018 | E_11 | SOFTSTONE, Award Winners project Exhibition | IAAC, BARCELONA |
| | | Project poster exhibition at 2A Awards exhibition at, IAAC, September 2018 | |
| | E_10 | Bioplastic Robotic Materialization, Biodegradable Lamps | BAUHAUSSTRASE, DESSAU |
| | | Research and design prototypes exhibition, public event, Dessau, July 2018 | |
| | E_09 | 100 Years Bauhaus Pavilion, Installations, and prototypes exhibition | BAUHAUSSTRASE, DESSAU |
| | | Dessau Bauhaus Campus fest, public event, July 2018 | |
| 2017 | E_08 | TRAM studio Robotic Step frames at Petternitecture Event and Exhibition | PLATFORM 28, TEHRAN |
| | | Stair projects at PL 28, Ab-Anbar, Niavaran Cultural Centre, August 2017 | |
| | E_07 | Hybrid Assembly Design Studio, DIA and TUD joint studio design studio | BAUHAUSSTRASE, DESSAU |
| | | Prototypes and installations, Public Campus fest, Bauhausstrase, July 2017 | |
| | E_06 | Scalable Porosity at Imprimer Le Mond, Mutations and Creations, | POMPIDOU, PARIS |
| | | Print the world exhibition/event at Pompidou Centre, March-June 2017 | |
| 2016 | E_05 | Game Set Match BK Expo, 1:1 prototypes and experiments | BK CITY, DELFT |
| | | GSM3 expo and international symposium, TU Delft, November 2016 | |
| 2015 | E_04 | Robotic 3D printing, Peer Reviewed Projects Poster Exhibition | ACADIA, CINCINNATI |
| | | Association for Computer-Aided Design, October 2015 | |
| | E_03 | Design Studio Prototypes, Hyperbody Design to Robotic production studio | SYNTACTIC, LE MANS |
| | | Exhibited at Syntactic Exhibition in France, November-December 2015 | |
| | E_02 | Design to Robotic Production Studio Prototypes and Projects | V2 GALLERY, ROTTERDAM |
| | | Workflow Demonstration and Prototype Exhibition at Institute for the Unstable Media, July 2015 | |
| | E_01 | Robotically Driven Construction of Building Project, Lecture and exhibition | GEVEL, UTRECHT |
| | | At the Construction Week, Week Van De Bouw, February 2015 | |

SELECTED ARCHITECTURAL DESIGN AND BUILT PROJECTS

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| 2021 - 2022 | AD_13 | Electrovan Culture, Vancouver Art, Music, and cultural experience store in downtown Vancouver | INTERIOR 700 SQ.FT IN PROGRESS | ARCHITECT IN CHARGE CEO-FOUNDER |
| | AD_12 | Vancouver Double House Four-story Single-Family house combined with a two-story laneway house | SINGLE FAMILY HOUSE 4500 SQ.FT IN-PROGRESS | ARCHITECT IN CHARGE CEO-FOUNDER |
| 2017 - 2019 | AD_11 | Farmanieh Five Urban Villas Eight-story building with five different flats and duplex stacked apartments. | MULTI-LEVEL RESIDENTIAL 3000 M ² _ DESIGN PROPOSAL COMPLETED | ARCHITECT IN CHARGE CEO-FOUNDER |
| 2014 -2018 | AD_10 | SOFTSTONE office building Seven-story dry assembled stone building with five flat office units. | MULTI-LEVEL OFFICE 1000 M ² _ BUILT AWARDED | ARCHITECT IN CHARGE CEO-FOUNDER |
| | PRESS | Design Wanted, ITALY MILAN, PUBLISHED A FULL ARTICLE ON SOFTSTONE, 2020 Parametric Architecture, PA MAGAZINE PUBLISHED SOFTSTONE, 2020 Amazing Architecture, PLATFORM PUBLISHED FULL ARTICLE ON SOFTSTONE, 2020 Architizer, ARCHITIZER ONLINE MAGAZINE PUBLISHED SOFTSTONE, 2019 1 ST PRIZE WINNER OF THE CATEGORY OF ARCHITECTURE + STONE, ARCHITIZER AWARD SPECIAL MENTION IN THE CATEGORY OF OFFICE-COMMERCIAL MID RISE, ARCHITIZER 2A Magazine, 2A EURO-ASIA CONTINENTAL AWARD MAGAZINE PUBLISHED SOFTSTONE AS WINNER OF OFFICE AND COMMERCIAL CATEGORY, 2A 2018 AT IAAC BARCELONA | | |
| 2014 -2017 | AD_09 | Abhar family house Three-story family house with roof garden in local handmade bricks. | SINGLE FAMILY HOUSE 900 M ² _ BUILT NOMINATED | DESIGN PRINCIPAL CO-FOUNDER |
| | PRESS | Archdaily, ARCHDAILY ONLINE MAGAZINE PUBLISHED ABHAR HOUSE, 2017 | | |
| 2014 -2017 | AD_08 | 8 House-Apartments Nine-story building with eight different flat stacked apartments. | MULTI-LEVEL RESIDENTIAL 3000 M ² _ BUILT | DESIGN PRINCIPAL CO-FOUNDER |
| 2015 -2016 | AD_07 | Golnar Office and Commercial Building Fourteen-story office and commercial building with roof garden. | MULTI-LEVEL OFFICE 3000 M ² _ PROPOSAL | DESIGN PRINCIPAL CO-FOUNDER |
| 2013 -2014 | AD_06 | Vertu Mobile Store Showroom with mezzanine with prefabricated bent steel panels. | INTERIOR 27 M ² _ BUILT | ASSOCIATE ARCHITECT CO-FOUNDER |
| 2009-2013 | AD_05 | Green Eye House Six and half story affordable housing with twelve units and a middle-shared garden. | MULTI-LEVEL RESIDENTIAL 2500 M ² _ BUILT NOMINATED | ASSOCIATE ARCHITECT DESIGN MANAGER |
| | PRESS | Venice Biennale, PAVILION BROCHURE PUBLISHED GREEN EYE HOUSE, 2015 | | |
| 2009 – 2011 | AD_04 | Persian Steel Factory Gate Building Freeform gate-entrance building proposal with long-span cantilever steel structure. | MONUMENTAL GATE 200 M ² _ PROPOSAL | ASSOCIATE ARCHITECT DESIGN MANAGER |
| 2009 – 2010 | AD_03 | Two Dentists' offices Dentists' office reception and laboratory spaces with prefabricated wooden panels. | INTERIOR 140 M ² _ BUILT | ASSOCIATE ARCHITECT DESIGN MANAGER |

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| 2008 – 2010 | AD_02 | Saipa Press Car Factory Mixed-Use Portal 10000 M ² portal complex and 30000 M ² master plan and the site annex buildings. | LARGE SCALE MIXED USE 40000 M ² _ COMPETITION 1 ST PRIZE | DESIGN PRINCIPAL DESIGN MANAGER |
| 2008 -2009 | AD_01 | Benetton Mixed-Use Headquarters Twelve story open floor plan stores and offices with public spaces. | MIXED-USE COMPLEX 7000 M ² _ COMPETITION | DESIGN PRINCIPAL FREELANCER |

SELECTED TRAINING AND POST EDUCATION

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| 2022 | TPS_06 | MYMO, Move Your Module Online, University of Huddersfield, UK As part of obtaining teaching qualifications, MYMO is designed for adapting courses for online delivery. | | ATTENDANCE COSTS FULLY COVERED BY THE DEPARTMENT |
| 2016 | TPS_05 | Startup Funding and Pitching Masterclass, Organized by 4TU, Netherlands 4 full days intensive startup funding and pitching camp with a focus on framing the startup business models, branding and management; Attending several brainstorming and training sessions to prototype and pitch ROBOFACTURE at Research to Reality Conference at NAI Rotterdam. | | ATTENDANCE COSTS FULLY COVERED BY TU DELFT AND 4TU |
| 2016 | TPS_04 | Advanced KUKA Robotic Programming, KUKA college Belgium 5 full days advanced Kuka Robot Language and Physical testing, calibrating and mastering KUKA robotic industrial arms at KUKA College Benelux center in Houthlen, Belgium. | | FULL SCHOLARSHIP AWARDED BY KUKA |
| 2016 | TPS_03 | Feature-Based Multi-Robot Assemblies, The University of Sydney 2 full days multi-robot programming, including YuMi ABB, real-time control and Human-Robot Collaboration workshop organized by Hal-Robotics at Rob Arch 2016 Conference in Sydney. | | ATTENDANCE COSTS FULLY COVERED BY TU DELFT |
| 2014 | TPS_02 | Robotic Cutting/Milling Workshop at University of Southern California 2 Full days robotic programming and prototyping workshop with focus on multi-tooling and creative toolpath generation, organized by Robots in Architecture Association in ACADIA 2014 in Los Angeles. | | ATTENDANCE COSTS FULLY COVERED BY TU DELFT |
| 2014 | TPS_01 | Robotic Wood Bending Workshop at Carnegie Mellon University 2 Full days multi-robot programming and one-to-one prototyping, Robotic steam bending of wood timbers with a 13-axis robotic setup, organized by Hal-Robotics & CMU at Rob Arch 2014 conference, U. of Michigan. | | ATTENDANCE COSTS FULLY COVERED BY TU DELFT |

SELECTED INVITED STUDIO CRITICS AND COMPETITION JURIES

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| EVOLO 2023 SKYSCRAPER COMPETITION | One of the five invited Jury members for eVolo 2023 skyscraper competition, August 29, 2022 to May 9, 2023 |
| WOODBURY SCHOOL OF ARCHITECTURE | Studio guest critics: Alternative Realities, Fourth Year studio at Woodbury School of Architecture, California, Spring 2022. |
| UNIVERSITY OF MICHIGAN, TAUBMAN COLLEGE OF ARCH. & URBAN DES. | Guest reviewer in Material Engagement, Advanced computational design and Robotic 3D printing course, Fall 2021. |
| AA-VISITING SCHOOL TORONTO | Guest critics in AA-Visiting School Toronto/Boston, Morphological Experiments Between Force and Form, Spring 2022. |
| WASHINGTON STATE UNIVERSITY DIGITAL FUTURES | Guest critics in Kinectoscapes: Architecture of Performative Intelligence at Digital Futures, Summer 2021. |
| TU BERLIN CITY X CHINA STUDIO | Guest critics at City X China studios, Morphing Ecologies Led by CyPhy lab at TU Berlin, Winter 2021. |
| UNIVERSITY OF TEHRAN ARCHITECTURAL TECHNOLOGY GROUP | Guest critics at Computational Design and Discrete Assembly MSc studio in Architectural Technology Track of University of Tehran, Winter 2021. |

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| NEW YORK INSTITUTE OF TECHNOLOGY NYIT SoAD, DIGITAL FUTURES | Guest critics at Big Data Dynamics International workshop led by NYIT at Digital Futures, Summer 2020. |
| DESSAU DEPARTMENT OF DESIGN MATERIABILITY RESEARCH GROUP | Guest critics at Bio-Plastic 3D printing course led by Materiability Research Group at Dessau Department of Design, Fall 2020. |
| FUTURLY.SPACE INTERNATIONAL WORKSHOP SERIES | Guest critics at Virtual Entities International computational design and Virtual Realities workshop led by Futurly, Fall 2020. |
| CAAI PARA-FICTION STUDIO | Guest critics at Para-Fiction studio led in Contemporary Architecture Association of Iran, CAAI school, Fall 2020. |
| TU DELFT & ENSA PARIS MALAQUAIS JOINT REVIEW SESSION | Critics at Join review session of ENSA Paris Malaquais Digital Knowledge M.Arch and Hyperbody Research Group MSc students, Fall 2018. |
| TU DELFT INDESEM DESIGN COMPETITION | Jury and Guest critics the international design competition in InDeSem 2015, International Design Seminar at BK City TU Delft, Summer 2015. |

MEMBERSHIPS, SCIENTIFIC COMMITTEE, AND SERVICES

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| IJAC | Elected member of editorial board of International Journal of Architectural Computing, IJAC, 2022-23; |
| ACADIA | Elected member of the ACADIA Board of Directors, 2022-24; One of the two development officers contacting sponsors, arranging agreements and sponsorship contributions. |
| AUTOMATION IN CONSTRUCTION | Scientific Reviewer, Automation in Construction International Journal, Elsevier, Since 2021; |
| 3DPAM+ | Scientific Reviewer, 3D Printing and Additive Manufacturing Journal, Since 2020; |
| NMP | New Metropolitan Perspectives (NMP)2022 Journal Springer, 2022; |
| CAAD FUTURES | Scientific reviewer in Computer Aided Architectural Design Conference Since 2020. |
| DRI | Associate member of Delft Robotic Institute since 2014; |
| DIGITAL FUTURES | Member of Committee for young series event of Digital Futures platform on Artificial Intelligence, Computation and Robotics in Architecture; |
| ACADIA | Scientific review committee of Association for Computer Aided Design in Architecture, North America, from 2014 to present; |
| ECAADE | Scientific review committee of education and research in Computer Aided Architectural Design in Europe since 2013 to present; |
| ROB ARCH | Member of Association of Robots in Architecture from 2014 to present; |
| TECO | Architect Member of Tehran Engineering and Construction Organization from 2009; |
| EYP/IBBY | Reviewer and consultant of essays in the fields of urbanism and architecture in The Iranian Encyclopedia for Young People, International Board of Books for Young People, Since 2005; |

TECHNICAL SKILLS, INTERESTS AND LANGUAGES

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|-----------------------|---|
| CAD-CAM | Methods & Software: Proficient in Rhinoceros, Grasshopper, Parametric Environmental and Structural Analysis and simulation, Design optimization, Finite Element Methods, 3DsMax, AutoCAD, Adobe Creative Suite, Corel Draw suite; Familiar with Revit, Dynamo; Experienced in CNC manufacturing, Robotic 3D Milling and 3D printing and g-code programming; |
| ROBOTICS | Software & Hardware: Proficient in industrial robot offline and online programming with KUKA KRL (official diploma of advanced robot programming from KUKA Benelux collage) & ABB RAPID, Familiar with UR, Fanuc and ROS-industrial, inverse kinematic simulation solver; Design and Integration of customized Robotic end-effectors; |
| PROGRAMMING LANGUAGES | Python, Processing Java, Arduino, Familiar with JavaScript, Rhino script, C# and VB English (Full Proficiency-TOEFL, GRE), Persian (Native, Proficient), Dutch (Intermediate Working Proficiency), French (Studied 2+ Years), Familiar with German and Azari; |
| INTERESTS | Painting, sketching, and sculpting, creative coding, media and digital art; familiar with playing Violin and Kamancheh, Piano and occasional member of a choir; |