

Resume | S Y Andalib, Ph.D.

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[LinkedIn](#) | [Portfolio](#) | [Website](#)

EXPERIENCE

Texas Tech University, Lubbock, Texas

Tenure-track Assistant Professor

September 2025 – Present

- Designing course curriculum and syllabus.
- Teaching site grading, stormwater management, digital communication, and research methodology.
- Supervising graduate projects and theses.
- Lead Principal Investigator for King Foundation Grant, West Texas Region, for coordinating and designing outdoor learning environments (OLE) in daycare centers.
- Founder and lead, Landscape Architecture Technology, Translation, Intelligence, and Computational Environments (LATTICE) lab, Department of Landscape Architecture, Davis College of Agricultural Science and Natural Resources.

Texas Tech University, Lubbock, Texas

Graduate Research Assistant

January 2021 – August 2025

- Creating interactive Virtual Reality learning modules for landscape architecture construction with Unreal Engine.
- 3D scanning and virtual space creation of outdoor learning environments (OLE) for childcare and research centers.
- Teaching 3D modeling and rendering with Rhino 3D, Sketchup, Twinmotion, and Lumion at graduate and undergraduate level.
- Teaching XR technology awareness with Rhino 3D, Twinmotion, and Oculus Quest at the undergraduate level.
- Assisting with the preparation of landscape architecture construction details.
- Conducting data collection sessions for research on early childhood science learning for a USDA-funded study titled USDA Gardening Project.
- Leading the animation team to create an awareness video series for USDA Gardening Project.
- Assisting with participatory design workshops for Outdoor Learning Environments.
- Assisting with presenting proposed design for Outdoor Learning Environments.

BRAC University, Dhaka, Bangladesh

Research Associate

January 2019- December 2020

- Research coordinator in Million Cool Roofs Challenge for data inventory, analysis, and intervention quality control.
- Assisting and teaching students about digital fabrication methods, such as laser cutting and 3D printing
- Conducting teaching assistance in Design Studio.
- Preparing study materials and course outlines.
- Administering and conducting final examinations of the department.
- Conducting teaching assistance on a short course on interior design arranged by the School of Architecture and Design, BRAC University.
- Involvement in the graphic design of various departmental publications and advertisements.
- Conducting workshops on digital tools and digital fabrication awareness

Rangs Properties Ltd., Dhaka, Bangladesh

Senior Executive: Architect

December 2017- December 2018

- Developing and executing construction of architectural and interior design.
- Research and development in design methods.
- Producing 3D models and visualization for architectural presentation.

Form.3 Architects., Dhaka, Bangladesh

Associate Architect

August 2016- December 2017

- Developing and executing construction of architectural and interior design.
- Research and development in design methods.
- Producing 3D models and visualization for architectural presentation.
- Preparing Revit workflow for collaborative project development in multidisciplinary teams.

ENTREPRENEURIAL EXPERIENCE

Onushongo Bangladesh, Dhaka, Bangladesh

Founding Partner and Chief Technology Officer (CTO)

December 2018 – Present

- Active involvement in community participatory design development for the low-income habitat development of Bangladesh.

- Conducting community-involved student workshops to bridge the gap between academia and practice.
- Involvement in architectural and interior design for low-cost housing projects.
- Facilitating the construction of low-income housing projects.
- Working in the architectural visualization sector to co-design low-cost settlements with Bangladesh's urban poor.
- Research and development in community participatory computational design method.
- Bridging the gap between donors such as the World Bank and BRAC and the marginalized community through organizing community meetings, enabling participation of both sides.

EDUCATION

Texas Tech University , Lubbock, Texas	August, 2025
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Ph.D. in Land-use Planning, Management, and Design

Texas Tech University, Lubbock, Texas

July, 2022

Master of Landscape Architecture

Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

November, 2016

Bachelor of Architecture

PUBLICATIONS

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- Andalib, S. Y., Monsur, M., Cook, C., Lemon, M., Zawarus, P., & Loon, L. (2025). *Enhancing Landscape Architecture Construction Learning with Extended Reality (XR): Comparing Interactive Virtual Reality (VR) with Traditional Learning Methods*. *Education Sciences*, 15(8), 992.
 - Andalib, S. Y., & Monsur, M. (2024). *Co-Created Virtual Reality (VR) Modules in Landscape Architecture Education: A Mixed Methods Study Investigating the Pedagogical Effectiveness of VR*. *Education Sciences*, 14(6), Article 6. <https://doi.org/10.3390/educsci14060553>
 - Monsur, M., Hefner, T., Van Allen, J., Trina, N. A., Andalib, S. Y., & Cosco, N. (2024). *Effects of Childcare Hands-On Gardening on Preschoolers' (3–5 Years) Physical Activity in Semi-Arid Climate Zone*. *International Journal of Environmental Research and Public Health*, 21(5), Article 5. <https://doi.org/10.3390/ijerph21050548>
 - Andalib, S Y & Monsur, M. (2023, April 12-15). *Learning Opportunities Through Immersive Technology: A Comparative Analysis Between Traditional and XR-Aided Learning in Design* [Paper

Presentation]. Architectural Research Centers Consortium 2023 The Research-Design Interface Conference, Dallas, TX, USA.

- Monsur, M., Afrin Trina, N., Andalib, S. Y., Hasan, K., & Datta, S. (2021). *Reclaiming the Streets for Play: Design Ideas for Play Streets in Dhaka*. In *Next 50: Collective Futures*. Estudio Abierto/Open Studio

CONFERENCE PRESENTATION

- Oral presentation on understanding impact of Augmented Reality (AR) for environmental parameters understanding in landscape graduate students at Council of Educators in Landscape Architecture (CELA) 2025 Processes+Impacts conference.
- Oral presentation on understanding impact of Virtual Reality (VR) for remote site attribute understanding in landscape graduate students at Council of Educators in Landscape Architecture (CELA) 2025 Processes+Impacts conference.
- Verbal presentation on Interactive Virtual Tours (IVTs) to showcase best practices for childcare outdoor design in Texas Children in Nature Network (TCiNN) Summit 2024.
- Verbal presentation on implementing XR technology for plant identification in Texas Nursery and Landscape Association (TNLA) West Texas Workshop 2024.
- Full paper presentation on XR-aided design education in Architectural Research Centers Consortium (ARCC) 2023 international conference.
- Recipient of best student design poster: first place in Environmental Design Research Association (EDRA) 54th Conference.
- Poster presented at Council of Educators in Landscape Architecture (CELA) 2023 Align Realign Conference.
- Poster presented at the 8th Annual Meeting of Obesity Research Institute (ORI) at Texas Tech University.

AWARDS & ACCOLADES

- Recipient of the Distinguished Graduate Student Assistantship (DGSA) for the 2022-2025 academic year from Texas Tech University Graduate School.
- Awarded Graduate Student Research Support by Texas Tech University Graduate School in Fall 2024 for advancing impactful technology integration in landscape architecture education.
- Recipient of Design Sensibility: Student, 2022 award from the Department of Landscape Architecture, Texas Tech University.

- Recipient of Academic Achievement: Student, 2022 award from the Department of Landscape Architecture, Texas Tech University.
- Received membership at the Honor Society of Sigma Lambda Alpha for outstanding academic performance.
- Recipient of the American Society of Landscape Architects (ASLA) Texas Chapter Merit Award in 2022.
- Poster presented at Council of Educators in Landscape Architecture (CELA) 2022 Evolving Norms Conference.
- Recipient of L. Edward Marvin Scholarship in Landscape Architecture for the 2021-2022 academic year.
- Recipient of the American Society of Landscape Architects (ASLA) Texas Chapter Scholarship for the 2021-2022 academic year.
- Recipient of the American Society of Landscape Architects (ASLA) Texas Chapter Honor Award in 2021.
- Affordable dwelling masterplan design for government workers awarded by UNDP in 2019.
- Winner at Urban Innovation Challenge (UIC) arranged by BRAC for best affordable housing solution in 2018.
- Berger Student Design Award for Best Designer, Bangladesh University of Engineering and Technology (BUET) in 2014.
- Undergraduate thesis on the development of parametric informal settlement invited to present at KVD Forum, CEPT, Ahmedabad.

PROFESSIONAL MEMBERSHIP

2023-Present	Member, Environment Design Research Association (EDRA).
2022-Present	Student Member, American Society of Landscape Architects (ASLA).
2024- Present	Member, Council of Educators in Landscape Architecture (CELA).