

Victor H. Maldonado, Ph.D.

Associate Professor

NSF CAREER Awardee

NASA Glenn Faculty Research Fellow

Texas Tech University

Department of Mechanical Engineering

Box 41021

Lubbock, TX 79409-1021

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ACADEMIC CAREER SUMMARY

- **Current Active Funding:** \$500,000; NSF CAREER Award (2018 – 2023)
- **Students Mentored & Graduated:** 3 PhD students mentored; 19 M.S. students graduated with M.S. Thesis or M.S. Project
- **25 Journal and Conference Publications and Contributions**

EDUCATIONAL BACKGROUND

Doctor of Philosophy, Aeronautical Engineering

Rensselaer Polytechnic Institute, Troy, NY (2007 – 2012)

Experimental Aerodynamics

Advisor: Professor Luciano Castillo (Purdue University)

Co-Advisor: Professor Charles Meneveau (Johns Hopkins University)

Dissertation: *The Role of Free Stream Turbulence and Blade Surface Conditions on the Aerodynamic Performance of Wind Turbine Blades*

Master of Science, Mechanical Engineering

Rensselaer Polytechnic Institute, Troy, NY (2004 – 2006)

Fluid Dynamics

Bachelor of Science, Aeronautical Engineering

Rensselaer Polytechnic Institute, Troy, NY (2000 – 2004)

PROFESSIONAL EMPLOYMENT HISTORY

Associate Professor

Department of Mechanical Engineering

Texas Tech University, Lubbock, TX

2019 – Current

Assistant Professor

Department of Mechanical Engineering
University of Texas at San Antonio, San Antonio, TX
2013 – 2018

NASA Glenn Research Center Summer Faculty Fellow

Communications and Intelligent Systems Division
Intelligent Control and Autonomy Branch
Conceptual Design of a Medical Evacuation Air Vehicle with Turboelectric Propulsion
NASA Glenn Research Center, Cleveland, OH
June – August, 2016

Postdoctoral Research Fellow

National Wind Resource Center
Fluid Dynamics and Aerodynamics of Wind Turbine Blades
Department of Mechanical Engineering
Texas Tech University, Lubbock, TX
2012 – 2013

Research Engineer

Lockheed Martin, Advanced Technology Laboratories
DARPA Nano Air Vehicle Program – 6-DOF Flight Analysis in Matlab/ Simulink
Cherry Hill, NJ
June – August 2007

AWARDS AND HONORS

1. **National Science Foundation (NSF) CAREER Award** (NSF Award No. CBET-1751918)

PI: Victor Maldonado

Project Title: CAREER: Control of Vortex Breakdown in High-Reynolds Number Rotor Flows with Secondary Vortex Structures

Award Amount: \$500,000

Award Duration: 02/01/2018 to 01/31/2023

2. **NASA Glenn Research Center Faculty Fellow**, Cleveland, OH

Faculty Fellow: Victor Maldonado

Project Title: Conceptual Design of a Medical Evacuation Air Vehicle with Distributed Turboelectric Propulsion

Award Amount: \$14,000 (10 weeks)

Duration: 06/06/2016 to 08/12/2016

3. **Dee Howard Endowed Faculty Fellow**, San Antonio, TX

Faculty Fellow: Victor Maldonado

Department of Mechanical Engineering
University of Texas at San Antonio

Endowment: Dee Howard Family

Purpose: Funding for aerospace related research and teaching activities

Award Amount: \$5,000/ year

Duration: Fall 2013 to Spring 2017

4. **National Wind Resource Center Leadership & Service Award**, Lubbock, TX

Department of Mechanical Engineering
Texas Tech University

Purpose: Excellence in mentoring for Summer Research Institute undergraduate students

Awarded: Spring 2013

5. **National Science Foundation (NSF) Graduate K-12 Fellow**, Troy, NY

Fellow: Victor Maldonado

Department of Mechanical, Aerospace & Nuclear Engineering
Rensselaer Polytechnic Institute

Purpose: Funding for PhD program and mentoring of local pre-engineering high school students.

Project Title: Building Bridges from High School to Grad School: Inspiring Students through Discovery-based Activities in Energy and the Environment

Award Amount: \$30,000/ year

Duration: Fall 2010 to Fall 2012

6. **National Science Foundation (NSF), Alliance for Graduate Education and the Professoriate Fellow**, Troy, NY

Fellow: Victor Maldonado

Department of Mechanical, Aerospace & Nuclear Engineering
Rensselaer Polytechnic Institute

Purpose: Funding for MS program and mentoring to increase minority junior faculty members

Project Title: NSF-AGEP Central New York-Puerto Rico

Award Amount: \$30,000/ year

Duration: Fall 2004 to Fall 2006

RELEVANT SKILLS

Technical:

1. Career expert in experimental techniques in fluid mechanics and aerodynamics: Extensive experience in the use and design of wind tunnels in the USA since 2006 at: Rensselaer Polytechnic Institute, Johns Hopkins University, Texas Tech University, UT San Antonio, and Europe (Chalmers University); stereoscopic particle image velocimetry (SPIV), laser doppler velocimetry (LDV), load cell force/torque measurements, pressure and temperature measurements, computer-based data acquisition, and flow visualization.
2. Career expert in passive and active flow control techniques for fixed and rotary wings: Vortex generators, piezoelectric-based synthetic jet actuators, and piezo-based wall oscillation actuators (NSF CAREER project).
3. Experienced in computational fluid dynamics (CFD): Analysis of airfoils with passive/ active flow control and basic aircraft configurations with commercial CFD packages, e.g. ANSYS Fluent, Cart3D.
4. Experienced in air vehicle design: Conceptual and preliminary design process for fixed-wing and rotorcraft vehicles, hybrid vehicles, and modular and reconfigurable design of unmanned aerial vehicles (UAVs).
5. Experienced in experimental testing of UAVs: bench-top and laboratory testing of UAV sub-systems (controls and propulsion), hardware in-the-loop testing, and flight-testing with open source autopilots.

Leadership:

1. Project management: Manage research projects and supervise graduate students, PI and Co-PI collaborations with colleagues, and program managers in funding agencies.
2. Laboratory management: Director of the Control of Flow and Dynamical Systems Lab at UTSA; pursue collaborations and funding, supervise student research, and mentor students.
3. Proposal preparation: Led or supported a number of proposal efforts (~30 submitted) as PI or Co-PI to federal agencies such as; NSF, ONR, AFOSR, and NASA.

Software and Languages:

1. Matlab/ Simulink, ANSYS Fluent, Cart3D, Gridgen, NI Labview (Data Acquisition), U.S. Digital Datcom, Solidworks, Rhinoceros, Unigraphics, Matlab, C/C++, FORTRAN 95.

PUBLICATIONS

Technical Reports

NASA Report: (2016) Maldonado, V., Simon, D., and Garg, S., “Conceptual Design of a Medical Evacuation Air Vehicle with Distributed Turboelectric Propulsion,” Intelligent Control and Autonomy Branch, NASA Glenn Research Center, Cleveland, OH.

Refereed Journal Articles and Book Chapters

1. Maldonado, V., and Gupta, S., “Increasing Power Efficiency of Large-Scale Rotors with Synthetic Jet Actuators,” *Experimental Thermal and Fluid Science*, 2019, under review.
2. Maldonado, V., “Performance and LDV Measurements of a Large Scale Propulsive Rotor with Synthetic Jet Actuators,” *Journal of Propulsion and Power*, 2019, under review.
3. Zeng, C., Abnous, R., Chowdhury, S., and Maldonado, V., “A New Tilt-Arm Transitioning Unmanned Aerial Vehicle: Introduction and Conceptual Design,” *Journal of Aircraft*, 2019, under review.
4. Maldonado, V., and Gupta, S. (2017) “Active Flow Control of a Low Reynolds Number S809 Wind Turbine Blade Model under Dynamic Pitching Maneuvers,” *Open Journal of Fluid Dynamics*, 7, 178-193.
5. Maldonado, V. (2016). Active Flow Control of Wind Turbine Blades, Wind Turbines - Design, Control and Applications, Book Chapter, Dr. Abdel Ghani Aissaoui (Ed.), InTech, DOI: 10.5772/63480.
6. Chowdhury, S., Maldonado, V., Messac, A., and Tong, W., (2016) “A New Modular Product Platform Planning Approach to Design Macro-scale Reconfigurable Unmanned Aerial Vehicles (UAVs)”, *AIAA Journal of Aircraft*, doi: 10.2514/1.C033262.
7. Maldonado, V., Thormann, A., Meneveau, C., and Castillo, L., "The Role of Free Stream Turbulence with Large Integral Scale on the Aerodynamic Performance of an Experimental Low Reynolds Number S809 Wind Turbine Blade," *Journal of Wind Eng. & Ind. Aerodynamics*, 2015, 142; 246-257.
8. Maldonado, V., Castillo, L., Carbajal, G., and Prabhat, H., “Building International Experiences Into an Engineering Curriculum - A Design Project Based Approach,” *European Journal of Engineering Education*, 2014, Vol. 39; Is. 4.
9. Maldonado, V., Boucher, M., Ostman, R., and Amitay, M., “Active Vibration Control of a Wind Turbine Blade Using Synthetic Jets,” *International Journal of Flow Control*, 2009, 1; 4.
10. Maldonado, V., Farnsworth, J., Gressick, W., and Amitay, M., “Active Control of Flow Separation and Structural Vibrations of Wind Turbine Blades,” *Wind Energy*, 2009, 13; 221-237.

Referred Conference Articles and Scholarly Presentations

1. Chowdhury, S., Vani, D.R., Maldonado, V., Salazar, M., and Soujouidi, R., “Experimental and Computational Investigation of Passive Surface Flow Control for Aerodynamic Efficiency,” Proceedings of AIAA Aviation and Aeronautics Forum, June 2017, Denver, CO.
2. Maldonado, V., Sarker, P., and Chowdhury, S., “A Modular Design Approach to a Reconfigurable Unmanned Aerial Vehicle,” AIAA Science and Technology forum, 2017, Jan. 9-13, Grapevine, TX.

3. Rinauto, B., Gupta, S., Chowdhury, S., and Maldonado, V., "Design of a Modular Offline Reconfigurable Unmanned Aerial Vehicle," AIAA Science and Technology forum, 2017, Jan. 9-13, Grapevine, TX.
4. Abnous, R., Zeng, C., Chowdhury, S., Maldonado, V., and Mancuso, P., "Design Optimization of a New Transitioning Unmanned Aerial Vehicle with Wing Mounted Rotor Arms," AIAA Science and Technology forum, 2017, Jan. 9-13, Grapevine, TX.
5. Chowdhury S, Maldonado V., and Patel R., "Conceptual design of a multi-ability reconfigurable unmanned aerial vehicle (UAV) through a synergy of 3D CAD and modular platform planning," AIAA Aviation and Aeronautics forum, 2014, Jun. 16-20, Atlanta, GA.
6. Maldonado, V., "Conceptual Design of the TransAtlantic as a Research Platform for the Development of "Green" Aircraft Technologies," International Conference on Mechanical, Aeronautical and Automotive Engineering, ICMAAE, 2014, Florence, Italy.
7. V. Maldonado, F. Mehdi, N. Laal Dehghani, D. McKeon, B. Aksak, P. Glass, M. Sitti, J. Sheng, and L. Castillo, "Lift and Drag Measurements Over a Wind Turbine Blade with Micro-Fibrillar Structures," International Conference on Aerodynamic of Offshore Wind Systems and Wakes, *ICOWES*, Jun. 17-19, 2013, Copenhagen, Denmark.
8. S. Chowdhury, V. Maldonado, W. Tong, and A. Messac, "Comprehensive Product Platform Planning (CP3) for a Modular Family of Unmanned Aerial Vehicles," ASME 2013 International Design Engineering Technical Conferences, *IDETC*, Aug. 4-7, 2013, Portland, OR.
9. S. Chowdhury, V. Maldonado, W. Tong, and A. Messac, "Macro-scale Reconfigurable Unmanned Aerial Vehicles for Civilian Offshore Applications," *10th World Congress on Structural and Multidisciplinary Optimization*, May 19-24, 2013, Orlando, FL.
10. V. Maldonado, A. Thormann, L. Castillo, and C. Meneveau, "The Role of Free Stream Turbulence on the Aerodynamic Performance of a Wind Turbine Blade," *65th Annual Meeting of the American Physical Society Division of Fluid Dynamics*, Nov. 18-20, 2012, San Diego, CA.
11. S. Torres-Nieves, V. Maldonado, H.S. Kang, C. Meneveau, and L. Castillo "Effect of Freestream Turbulence on the Flow Around an S809 Wind Turbine Blade," *50th AIAA Aerospace Sciences Meeting*, Jan. 9-12, 2012, Nashville, TN.
12. V. Maldonado, S. Torres-Nieves, L. Castillo, H.S. Kang, and C. Meneveau, "The Role of Turbulent Scales on the Aerodynamics of a Smooth Surface Wind Turbine Blade." *63rd Annual Meeting of the American Physical Society Division of Fluid Dynamics*, Nov. 21-23, 2010, Long Beach, CA.
13. V. Maldonado, M. Boucher, and M. Amitay, "Active Vibration Control of an S809 Wind Turbine Blade Using Synthetic Jet Actuators," *1000 Islands Fluid Dynamics Meeting*, 2010, Ontario, CN.

14. V. Maldonado, M. Boucher, and M. Amitay, M., “Active Vibration Control of an S809 Wind Turbine Blade Using Synthetic Jet Actuators,” *62nd Annual Meeting of the American Physical Society Division of Fluid Dynamics*, Nov. 22-24, 2009, Minneapolis, MN.
15. V. Maldonado, Boucher, M., and Amitay, M., “Active Control of Flow Separation and Structural Vibrations of an S809 Wind Turbine Blade,” *1000 Islands Fluid Dynamics Meeting*, 2009, Ontario, CN.
16. V. Maldonado, W. Gressick, and M. Amitay, “Active Control of Flow Separation and Structural Vibrations of Wind Turbine Blades,” *61st Annual Meeting of the American Physical Society Division of Fluid Dynamics*, 2008, San Antonio, TX.
17. V. Maldonado, J. Farnsworth, W. Gressick, and M. Amitay, “Active Enhancement of Wind Turbine Blades Performance”, *27th AIAA/ASME Wind Energy Symposium*, 2008, Reno, NV.
18. V. Maldonado, L. Castillo “Suction and Blowing Boundary Layer Interactions on a Micro-pump Equipped Clark-Y Airfoil,” *58th Annual Meeting of the American Physical Society Division of Fluid Dynamics*, Nov. 20-22, 2005, Chicago, IL.
19. V. Maldonado, “Development of the Hybrid Micro Unmanned Air Vehicle”, *Walter Lincoln Hawkins '32 Graduate Research Conference*, 2003, Rensselaer Polytechnic Institute, Troy, NY.
20. V. Maldonado, “Trailing Wake Stabilized Micro Air Vehicle”, *Walter Lincoln Hawkins '32 Graduate Research Conference*, 2002, Rensselaer Polytechnic Institute, Troy, NY.

Research and Project Management

University of Texas at San Antonio, San Antonio, TX

Assistant Professor, Department of Mechanical Engineering (2013 – Present)

Graduate Students (Thesis/ Project)

Mentored PhD Students (3): Ray Soujoudi, Soham Gupta, and Fuad Hasan

Former Graduated MS Students (19): Karen McGill, Raham Kirkwood, Peter Mancuso, Tasnia Fatima, Karan Kurani, Karamjit Singh, Sabah Mahmood, Soham Gupta, Prithviraj Sarker, Jimmy Postwala, Abhishek Harishchandra, J Welch, Abir Choubey, Fuad Hasan, Rushan Wasim, Navya Reddy, Nidheesh Seshadri, Lionel Solomon, and Matthew Salazar.

Completed Thesis and Project Titles at UTSA:

1. Minimization of Boundary Layer Separation Across a Thin Airfoil with Passive Control Application (Matthew Salazar, MS Project, Spring 2017).

2. Low Reynolds Number Aerodynamics of an Active Piezo-Composite Finite Wing (Lionel Solomon, MS Project, Spring 2017).
3. Low Pass Filtered Accelerometer Measurements on Rotor Blades with Piezoelectric Synthetic Jet Actuators (Nidheesh Seshadri, MS Project, Fall 2016).
4. Development of a Piezo-Composite Finite Wing for Global Active Flow Control (Navya Reddy, MS Project, Fall 2016).
5. Performance Testing of Zinc-Bromide Hybrid Flow Batteries for Energy Storage (Rushan Wasim, MS Thesis, joint with Microsoft and Texas Sustainable Energy Research Institute, Fall 2016).
6. Performance Enhancement of Propulsive Rotor by Active Flow Control Using Synthetic Jets (Fuad Hasan, MS Project, Summer 2016).
7. Development of Multipurpose Test Rig Complete with Instrumentation for Wind Turbine/ Helicopter Blade Tip Vortex Investigation and it's Mitigation Using Active Flow Control by Employing Synthetic Jet Actuators (Soham Gupta, MS Thesis, Spring 2016).
8. A Novel Modular Design Approach to a Reconfigurable Multi-Flight Mode Unmanned Aerial Vehicle (Prithviraj Sarker, MS Thesis, Spring 2016).
9. Aerodynamic Performance Enhancement of Helicopter Rotor Blades Using Synthetic Jets (Abhishek Harishchandra, MS Project, Spring 2016).
10. CAD Design and Fabrication of Hybrid VTOL and Structural Analysis Measuring its Performance (Jimmy Postwala, MS Thesis, Spring 2016).
11. Automated RF Cathodic Protection Communication Between an In-flight UAV and Autonomous Ground Pipeline Testing Stations (J Welch, MS Project, Spring 2016).
12. Structural Vibration and Active Control of Helicopter Blades Utilizing Synthetic Jet Actuators (Abir Choubey, MS Project, Spring 2016).
13. Enabling Efficient Vertical Takeoff/ Landing and Forward Flight of Unmanned Aerial Vehicles: Design and Control of Tandem Wing-tip Mounted Rotor Mechanisms (Peter Mancuso, MS Thesis, Fall 2015).
14. Thrust Vectoring of a Ducted Fan Jet Utilizing a Novel Piezoelectric Composite Morphing Nozzle (Tasnia Fatima, MS Thesis, Fall 2015).
15. Finite Element Analysis of a Rotor Testing Tower for Active Flow Control Experiments (Karan Kurani, MS Project, Fall 2015).
16. Performance Evaluation of Photovoltaic Solar Power Plants (Sabah Mahmood, MS Project, joint with Texas Sustainable Energy Research Institute, Fall 2015).

17. Active Flow Control of Propulsive Rotors: Baseline Analytical and Experimental Rotor Performance Measurements (Karamjit Singh, MS Project, Fall 2015).
 18. Performance Measurements of a Dual-Rotor Arm Mechanism for Efficient Flight Transition of Fixed-Wing Unmanned Aerial Vehicles (Karen McGill, MS Project, Fall 2014).
 19. Development and Feasibility of an Autonomous Unmanned Aerial Vehicle-Based Wind Data Collection System (Raham, Kirkwood, MS Project, Fall 2014).
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INTELLECTUAL PROPERTY

1. Title: “An integrated Pipeline Monitoring System Utilizing UAV-Based Sensor Technology and Image Analysis”
US Provisional Patent Application
Inventors: Dr. Arturo Montoya, Dr. Adel Alaeddini, Dr. Victor Maldonado, and Steven Fargo
Filing Date: 9/1/2015
 2. Title: “Unmanned Air Vehicle-Based Site-Wide Wind Mapping”
US Provisional Patent Application
Inventors: Dr. Souma Chowdhury, Sam Notaro, Dr. Victor Maldonado, Riken Patel, and Dr. Tanmoy Chakraborty
Filing Date: December, 2012
 3. Title: “Electromagnetic Synthetic Jet (EMSJ) Actuator”
US Provisional Patent Application
Inventors: Dr. Victor Maldonado
Filing Date: November 17, 2011
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COURSE TEACHING

Texas Tech University, Lubbock, TX

Associate Professor, Department of Mechanical Engineering (Spring 2019 – Present)

1. Fluid Mechanics (ME 3370): Undergraduate course, Spring 2019. Enrollment: 26 students.

University of Texas at San Antonio, San Antonio, TX

Assistant Professor, Department of Mechanical Engineering (Fall 2013 – Present)

1. Experimental Techniques in Engineering (ME 6113): Graduate course, offered in the Fall 2013 and Fall 2015. Enrollment: 13 & 21 students respectively.
2. Aerodynamics (ME 4953/ 5013): Undergraduate/ graduate course, offered in the Spring 2014 and Fall 2016. Enrollment: 36 & 42 students respectively.
3. Experimental Aerodynamics (ME 5013): Graduate course, offered in the Spring 2017 for the first time. Enrollment: 6 students.

4. Compressible Flow and Propulsion Systems (ME 4183): Undergraduate course, offered in the Fall 2014, and Fall 2017. Enrollment: 32 & 47 students respectively.
5. Measurements & Instrumentation (ME 3113): Lab-based undergraduate course. Offered Spring 2015, Fall 2015, Spring & Fall 2016, Fall 2017. Enrollment: Up to 93 students.

PROFESSIONAL AND MENTORING ACTIVITIES

MEMBERSHIP

Senior Member, American Institute of Aeronautics and Astronautics, AIAA, Current
Senior Member, American Physical Society (APS) Division of Fluid Dynamics (DFD), Current

SELECTED EXTERNAL SERVICE

1. Applied Sciences Journal Manuscript Reviewer
Dates: Fall 2014 – Present
Section: Energy, Wind Turbine Aerodynamics
Contribution: Review 2-4 manuscripts per year
2. Seminar Coordinator
Department: UTSA Mechanical Engineering
Dates: Fall 2014 – Spring 2015
Contribution: Assist with organizing Department seminars, including communicating with Department faculty and seminar speakers, hosting the speaker.
Time Commitment: 2-3 hours per seminar visitor
3. Journal Manuscript Reviewer
Journal: Wind Engineering and Industrial Aerodynamics
Dates: Fall 2014 – Spring 2015
Time Commitment: Reviewed 2 manuscripts
4. Conference Manuscript Reviewer
Conference: Power Energy 2015
Dates: Spring 2015
Time Commitment: Reviewed 4 manuscripts: 8 hours total
5. Symposium Organizer
Symposium: Frontiers in Fluid Dynamics
Dates: Fall 2013, Symposium November 1-3, 2013
Time Commitment: 20 hours total
6. Session Chair
Event: Frontiers in Fluid Dynamics
Date: November 1, 2013
Time Commitment: 2 hours

INTERNAL DEPARTMENT SERVICE

1. Seminar Coordinator
Department: UTSA Mechanical Engineering
Dates: Fall 2014 – Spring 2015
Contribution: Assist with organizing Department seminars, including communicating with Department faculty and seminar speakers, hosting the speaker.
Time Commitment: 2-3 hours per seminar visitor
2. Department Promotion Committee Member
Department: Mechanical Engineering
Dates: Fall 2013 – Spring 2014
Committee Chair: Dr. Harry Millwater
Contribution: (i) Develop a Department flyer to attract domestic and international students. (ii) Promote the Department to interested students and faculty at the Universidad Autonoma de Bucaramanga in Colombia.
3. Faculty Search Committee Member: Robotics Position
Department: Mechanical Engineering
Dates: Fall 2013 – Spring 2014
Committee Chair: Dr. Hai-Chao Han
Contribution: Evaluate candidate application materials and conduct teleconference interviews of top candidates
4. Faculty Search Committee Member: Cyber-Physical Systems Position
Department: Electrical Engineering
Dates: Fall 2014 – Spring 2015
Committee Chair: Dr. Mehdi Shadaram
Contribution: Evaluate candidate application materials and conduct teleconference interviews of top candidates
5. Faculty Search Committee Member: Medical Devices Position
Department: Mechanical Engineering
Dates: Fall 2015 – Spring 2016
Committee Chair: Dr. Yusheng Feng
Contribution: Evaluate candidate application materials and conduct teleconference interviews of top candidates

MENTORING

Sample of undergraduate students mentored:

William McRae (Fall 2014 – 2016), Frank Garcia (Spring 2015 – 2016), Leo Drew (Fall 2015 – Present) Lictor Prianti-Leal (Fall 2013 – 2015), Job Macias (Spring 2015 – Fall 2015), Jeremy Browder (Spring 2015), Eric Ruiz (Fall 2013 – Spring 2014)

Sample of Mechanical Engineering Senior Design teams mentored:

1. Compliant Morphing Wing: Emmanuel Garcia, Abdualwahab Albabteen, Victor Canseco, and Emad Guirguis (Fall 2017 – Present).
2. HP AeroTech; Robert Oakes, Samer Baraz, Jose De La Garza, and Aaron McChesney (Fall 2016 – Spring 2017).
3. Jems Aeronautics Inc.; Joseph Ross, Matthew Carrillo, Sanya Singh, Adnan Yusuf (Fall 2015 – Spring 2016).
4. Anthony Chase, William Nichols, Chris N., Emanuel Lerma, (Fall 2014 – Spring 2015).

Student Organizations mentored:

Advanced Robotics, faculty advisor (Fall 2015 – Present)

Formula SAE, faculty advisor (Fall 2014 – Spring 2016)