

Ian Wilhite

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EDUCATION

Texas A&M University, College Station, Texas May 2026
B.S. in Robotics and Controls Engineering, Interdisciplinary Track GPA: 3.24/4.00
Minors: Control of Mechanical Systems, Computer Science | **Awards:** Grand Challenges Scholar, Science Influencer
Certificates: Certified SolidWorks Associate (CSWA), Licensed UAV Pilot – Recreational, Licensed Ham Radio Operator
Relevant Coursework: Autonomous Aerospace Systems, Foundations of Aerial Autonomy, Dynamics and Vibrations, Numerical Methods, Complex Analysis, Object Oriented Program Design, Mechanical Measurements, Solid Mechanics, and Linear Algebra

SKILLS

Computer Aided Design (CAD): SolidWorks (Parametric Modeling, Finite Element Analysis, Topology Optimization), Fusion 360
Programming & Operating Systems: C/C++, Java, ROS, ROS2, MATLAB, Python, R, Bash, LaTeX, Windows, Linux/Unix
Libraries and Development Tools: Git & GitHub, OpenCV (Computer Vision), Pandas, NumPy, Visual Studio Code (VS Code)

RELEVANT EXPERIENCE

Human-Empowering Robotics & Controls Lab – College Station, TX

Undergraduate Researcher – Hip Exoprosthesis Project, Mentor: PhD cand. Jadon Kaercher Jan. 2024 – May 2024

- Prototyping ankle joint attachment mechanism for lower body hip exoprosthesis frame for user comfort and cost effectiveness

360 Testing Co. – Yonkers, NY

Test Engineering Technician June 2018 – Dec. 2023

- Designed, performed, and analyzed niche testing methodologies, validating effectiveness of results for over a dozen projects
- Quoted scope of work, performed product tests, and documented findings for two complete customer projects

Kent Electronics – Grand Prairie, TX

Electrical Technician Mar. 2022 – Sept. 2022

- Soldered 250+ PCB boards with SMA components for military array and commercial applications
- Prototyped and refined an antenna clip in Fusion 360 for “fox hunt” style source-finding competitions

ACTIVITIES

Texas A&M University Robotics Team & Leadership Experience (TURTLE)

Project Lead & Founder - Disaster Response Observation Network (DRON) Jan. 2024 – Present

- Leading 16 engineers in implementation of a UAV swarm to aid emergency responders in structural fire situational analysis
- Developing RF Controls from a ground station to a UAV to allow for future scalability and coordinated swarm behavior

Lab Foreman May 2024 – Present

- Expanding lab facilities while ensuring proper training, upkeep, and maintenance of shop machinery worth \$10k+

American Society of Mechanical Engineers (ASME)

Executive Secretary May 2024 – Present

- Leading 7 officers to oversee all professional mixers, promotions, outreach, social media, special events, and retreats
- Migrated our communications from Discord to Slack, resulting in a 181% increase in membership (from 196 to 550 members)

EXPERIENCE

Texas A&M Department of ResLife - College Station, TX

Resident Advisor Jan. 2024 – Present

- Resolving active crises and coordinated community program for 400+ residents to create a welcoming atmosphere
- Demonstrated adaptability and problem-solving skills to address diverse resident needs, ensuring effective conflict resolution

Philmont Scout Ranch - Cimmaron, NM

Trail Crew Foreman - Conservation Dept. May 2024 – Aug. 2024

- Organized 2000+ man-hours of labor while maintaining worksite safety to reach project checkpoints on schedule
- Planned 28 days of trek itineraries and commissary orders to execute program elements with limited resources