

Ian Wilhite

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EDUCATION

Texas A&M University, College Station, Texas

May 2026

B.S. in Robotics and Controls Engineering

Minors: Math, Control of Mechanical Systems

Cumulative GPA: 3.4/4.0

Honors: Grand Challenges Scholar, Eagle Scout

RELEVANT EXPERIENCE

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

Undergraduate Researcher

Jan. 2024 – Present

- Conceptualizing and prototyping a method for comfortably transferring torques from the user to the exoskeleton frame, improving user experience and overcoming a major hurdle in the project
- Collaborating with researchers for part interface and enhanced project effectiveness for the hip exoprosthesis team

360 Testing Co. - Yonkers, NY

Test Engineering Technician

June 2018 – Dec. 2023

- Designed, performed, and analyzed niche testing methodologies, delivering defensible results for over a dozen projects
- Authored the first draft of deliverable reports to record all test configurations, which held up to legal scrutiny
- Completing 2 solo-projects from quote, through testing, to deliverable report, while learning from licensed engineers

Kent Electronics - Grand Prairie, TX

Electrical Technician

Mar. 2022 – Sept. 2022

- Soldered 500+ PCB boards with SMA components for military array and commercial applications
- Prototyped and refined an antenna mount in Fusion 360 for “fox hunt” style source-finding competitions

ACTIVITIES

Texas A&M University Robotics Team & Leadership Experience (T.U.R.T.L.E.)

Project Lead & Founder - Disaster Response Observation Network (D.R.O.N.)

Jan. 2024 – Present

- Leading design and implementation for a fleet of drones to aid first responders in hotspot identification during wildfires by defining subteam objectives, milestones, and responsibilities
- Managing version control and technical documentation on GitHub and ensuring proper subteam coordination
- Onboarding new team members, coordinating instruction, training, and mentoring to ensure new member success

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 (A.S.M.E.)

Executive Secretary

May. 2024 – Present

- Leading 5 officers to oversee all professional mixers, promotions, outreach, social media, special events, and retreats

Scouting America & The Order of the Arrow

Lodge Chief – Netopolis Sipo Schipinachk Lodge

Aug. 2022 – Aug. 2023

- Managed an organization of 1000+ members and \$100,000+ net assets by coordinating 5 officers and 12 committees
- Ran executive meetings and presented to audiences of 300+ members at events, including in the Texas Capitol

WORK EXPERIENCE

Texas A&M Dept. of ResLife - College Station, TX

Resident Advisor

Jan. 2024 – Present

- Resolving active crises, monitoring upkeep of facilities, and executing community program for 400+ residents

Philmont Conservation Dept. - Cimmaron, NM

O.A. Trail Crew Foreman

May 2024 – Aug. 2024

- Managing 2000+ man-hours of labor while maintaining worksite safety with restricted supervisor communication
- Planning trek itineraries and commissary orders while executing program elements on a tight schedule

Mathnasium - Bedford, TX

Math Tutor

Dec. 2022 – May 2023

- Providing over 800 hours of instruction to students while coordinating clerical tasks to maintain workflow

SKILLS

Computer Aided Design & Parametric Modeling: SolidWorks 2023, Fusion 360 | Programming Languages: Python, Java, LaTeX, R | Software and IDEs: Visual Studio Code (VS Code), IntelliJ, Arduino IDE, MatLab | MS Office, Github, OneDrive