

# Ian Wilhite

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## EDUCATION

**Texas A&M University**, College Station, Texas

May 2026

B.S. in Interdisciplinary Engineering: Robotics and Controls

Cumulative GPA: 3.1/4.0

Minors: Control of Mechanical Systems, Computer Science

Honors: Grand Challenges Scholar, Eagle Scout

## RELEVANT EXPERIENCE

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

*Undergraduate Researcher* | Advised by Dr. Gray Thomas

Jan. 2024 – Present

- Conceptualizing and prototyping a method for comfortably transferring user torques to the exoskeleton frame, improving user experience and device operation
- Collaborating with researchers for part interface to ensure system cohesion for 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
- 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 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 aide first responders in situational analysis during structural fires by defining subteam objectives, milestones, and responsibilities
- Managing version control and technical documentation on GitHub and ensuring proper subteam coordination
- Onboarding new team members, facilitated instruction, training, and mentoring to ensure new member success
- Implemented OpenCV in Python on a thermal camera feed to create a hotspot detecting script for direction finding

*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

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

## SKILLS

*Computer Aided Design:* Parametric Modelling, Assemblies and Simulation, SolidWorks, Fusion 360, OnShape

*Programming Languages:* C++, Python, Java, R, LaTeX, Windows & Linux Terminal

*Libraries & Platforms:* OpenCV, ROS2, NumPy, Pandas, Visual Studio Code, Arduino IDE, Git & Github, MatLab

*Electrical System Design:* Logic & Flow Diagrams, PCB soldering & wire splicing, PID & PWM Controllers

## EXPERIENCE

**Texas A&M Dept. 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

**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