Ian Wilhite

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EDUCATION

Texas A&M University, College Station, Texas   May 2026
    BS in Interdisciplinary Engineering: Robotics and Controls.   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 – May 2024

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

360 Testing Co. - Yonkers, NY

Test Engineering Technician   June 2018 – Dec. 2023

- Designed, performed, and analyzed niche testing methodologies, delivering defendable 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 (TURTLE)

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

- Leading 16 engineers in implementation of a UAV swarm to provide a live data stream by coordinating subteam efforts
- 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

Scouting America & The Order of the Arrow

Lodge Chief – Netopalis 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: Finite Element Analysis (FEA), Parametric Modeling, Assemblies and Animation
Applications and Software: SolidWorks, Fusion 360, Multisim, Microsoft Suite: Word & Excel
Programming Languages: C++, Python, Java, R, LaTex, Windows & Linux Terminal
Libraries & IDEs: OpenCV, ROS2, NumPy, Pandas, Visual Studio Code (VS Code), Arduino IDE, Git & Github

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

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