Ian Wilhite

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EDUCATION

Texas A&M University, College Station, Texas — May 2026

Bachelor of Science in Mechanical Engineering	Minors: Math, Control of Mechanical Systems
Cumulative GPA: 3.4/4.0	Honors: Grand Challenges Scholar

RELEVANT EXPERIENCE

Undergraduate Researcher – Human-Empowering Robotics & Controls Lab, Texas A&M — 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

Test Engineering Technician – 360 Testing Co., Yonkers, NY (remote management) — June 2018 – Dec. 2023
- Designed, performed, and analyzed niche testing methodologies, delivering defendable results for over a dozen projects
- Authored the first draft of deliverable reports to record all test configurations, which often held up to legal scrutiny
- Completing 2 solo-projects from quote, through testing, to deliverable report, supervised by licensed engineers

Electrical Technician – Kent Electronics, Grand Prairie, TX — Mar. 2022 – Sept. 2022
- Soldered 500+ 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

PROJECTS

Trampoline Life Cycle Testing (Team) — **360 Testing Co.** — May 2022
- Collaborated to design a pneumatic robot powered by 4 pistons, achieving 10,000 jumps per trial
- Operated and maintained the robot and assembly, completing over 100k cycles on 8 trampolines over 6 months

ACTIVITIES

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

Software Subteam - D.R.O.N. (Disaster Response Observation Network) — Jan. 2024 – Present
- Founding D.R.O.N. to collaboratively design and implement a fleet of drones to aide first responders in hotspot identification during wildfires; organized defining subteam objectives, milestones, and responsibilities
- Managing version control and technical documentation on GitHub and ensuring proper subteam coordination
- Onboaring new team members, coordinating instruction, training, and mentoring to ensure new member success

Hatchling Program Member — Sept. 2023 – Dec. 2023
- Collaborated to develop a pair of locomoting robots for "Battle Soccer", while self regulating design and progression

The Boy Scouts of America & The Order of the Arrow

Lodge Chief – Netopalis 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

Executive Board Member – Longhorn Council — Aug. 2022 – Aug. 2023
- Appointed as the youth representative to serve and vote on $10+ M in assets affecting 10,000+ youth members

WORK EXPERIENCE

Resident Advisor - Texas A&M Dept. of Residence Life, College Station, TX — Jan. 2024 – Present
- Resolving active crises, monitoring upkeep of facilities, and executing community program for 400+ residents
- Developing a community within the hall by supporting residents and encouraging campus participation

Math Tutor - Mathnasium, Bedford, TX — Dec. 2022 – May 2023
- Provided over 200 hours of instruction to students while coordinating clerical tasks to maintain workflow

AWARDS & HONORS

- Eagle Scout, with 6 Palms and 53 Merit Badges
- Grand Challenges Scholar, founded by the N.A.E.
- James E. West Fellow, B.S.A. National Foundation
- The Vigil Honor, The Order of the Arrow
- O.A. High Adventure Full Scholarship
- AP Scholar with Distinction '22 & '23

SKILLS

3D Computer Aided Design (CAD) & Parametric Modeling: SolidWorks 2023 and Fusion 360 | Programming Languages: Python, Java, LaTex, and R | Software and IDEs: Visual Studio Code (VS Code), Arduino IDE, and MatLab | Collaborative Development: Microsoft (MS) Office, Git & Github, and OneDrive | Digital Communications: Microsoft Teams and Slack