

Ian Wilhite

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EDUCATION

Texas A&M University, College Station, Texas

May 2026

Bachelor of Science Mechanical Engineering

Cumulative GPA: 3.4/4.0

Minors: Math, Control of Mechanical Systems

Honors: Grand Challenges Scholar

RELEVANT EXPERIENCE

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

Jan. 2024 – Present

- Conceptualizing and prototyping assemblies for the leg bypass adaptor to the hip exoprosthesis project
- Developing a method for constraining the user's foot to comfortably transfer forces to the exoskeleton frame
- Collaborating with other researchers for part interface, cross-project brainstorming, and

Test Engineering Technician – 360 Testing Co., Yonkers, NY (remote management)

June 2018 – Dec. 2023

- Designed, performed, and analyzed testing methodologies to develop defensible results for customers
- Conferred with Senior Engineers while designing to learn new skills and ensure testing integrity and validity

Electrical Technician – Kent Electronics, Grand Prairie, TX

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

PROJECTS

Roofing Boot Life Cycle Testing (Solo)

360 Testing Co.

Aug. 2023

- Designing and building a pneumatic sled and model roof to simulate actual end-user application conditions

Trampoline Life Cycle Testing (Team)

360 Testing Co.

May 2022

- Collaborating to design a pneumatic robot powered by 4 pistons to jump 10,000 times per trial
- Operating and maintaining the robot and assembly as it ran 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

- Founded D.R.O.N. to collaboratively design and implement a fleet of drones to aide first responders in hotspot identification during wildfires through defining subteam objectives, milestones, and responsibilities
- Managing version control and the technical documentation on GitHub while onboarding new team members

Hatchling Program Member

Sept. 2023 – Dec. 2023

- Collaborated with a partner to develop a pair of locomoting robots to compete in "Battle Soccer"

The Boy Scouts of 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 inating 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

Math Tutor - Mathnasium, Bedford, TX

Dec. 2022 – May 2023

- Instructed eager students while coordinating clerical tasks with other employees 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, Scouting's National Honor Society
- O.A. High Adventure Full Scholarship
- AP Scholar with Distinction '22 & '23

SKILLS

Computer Aided Design (CAD): SolidWorks 2023 and Fusion 360 | Programming Languages: Python, Java, and R | Software and Integrated Development Environments: Visual Studio Code (VS Code), Arduino IDE, and MatLab | File Sharing and Collaboration: Microsoft Office Suite, Github, and OneDrive | Digital Communications: Microsoft Teams, Zoom, and Slack