

Jackson Yoes

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Skills

Software / Programming: Python, C, HTML, JavaScript, Java, MATLAB, React

Mechanical / Hardware: Milling, Additive Manufacturing, Lathing, CAD, Machine shop tools

Tools / Environments: Visual Studio Code, Microsoft 365, Davinci Resolve, Version Control (Git)

Professional / Leadership: Team Leadership, Mentoring, Technical Communication, Prioritization, Adaptability

Education

B.S. Mechanical Engineering | Minor in Computer Science

Expected: MAY 2028

University of Arkansas | 3.00/4.00 GPA

- Relevant Courses: CAD, Statics, Materials, Chemistry, Calculus 1-3, University Physics 1-2, Thermodynamics
- Greek Life: Beta Upsilon Chi XI Chapter Alpha Gamma Pledge Class | Tier Positions: Worship Chair, Tech Chair

Experience

FIRST Robotics Team 5454 Obsidian - Team Mentor

JUNE 2024 - PRESENT

- Mentor 18 high school students in robot design, electrical wiring, software, and fabrication
- Guided teams in building functional robot subsystems under competition constraints
- Led design reviews and CAD integration for robot subsystems, troubleshooting failures during build season
- Specialized in 3D Localization, VSLAM, and Computer Vision Solutions using Limelight and PhotonVision

FIRST Robotics Team 5454 Obsidian - Team Captain

JUNE 2018 - JUNE 2024

- Directed design, manufacturing, and integration of competition robots
- Taught engineering concepts (mechanisms, electrical, control) to new team members
- Oversaw manufacturing and integration

Volunteer Work

New Life Ranch - Leadership Development Program

400 Hours

- Mentored and supervised 35 campers during a four-week leadership program

FIRST - For Inspiration and Recognition of Science and Technology - Referee

93 Hours

- Worked as a Referee for multiple FIRST Robotics Competition events.
- Assisted teams with robot troubleshooting during competition events

Certifications and Licenses

- FAA Private Pilot's License (ASEL) - #4440689
- Third Class Medical Certificate
- Red Cross First Aid / CPR / AED / Lifeguarding - #01Q6C60
- FCC ZA-GMRS Radio License - WSKD520

Accolades and Achievements

- FIRST Dean's List Semifinalist (2022)
- Campus Fellowship Worship Leader
- Built a Battery Tracking System to analyze battery use metrics and keep track of charge states
- Built my own homelab to experiment with Linux and network infrastructure