

John Pye

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Objective

My objective in obtaining an internship is to gain experience in the different facets of the aerospace robotics field in the private sector. I am seeking to further develop my skillsets in the research, development, and application of engineering principles in the field of aerospace robotics.

Status

Sophomore enrolled at the University of Michigan, College of Engineering, Class of 2024
Double major in Aerospace Engineering and Computer Engineering
3.964 GPA
US Citizen

Awards and Achievements

William J. Branston Freshman Prize ----- 2021
Arthur B. Singleton Prize Nominee ----- 2021
National Merit Scholarship Finalist ----- 2020

Experience

University of Michigan Flying Robotics Lab [Professor Ella Atkins] Research Assistant --- 2021 – Ongoing

- Currently independently designing and performing test regimen on cutting-edge emergency landing generation algorithm, and writing paper on test results
- Developed test-critical waypoint generation and communication software

Robotics Course [Professor Jessy Grizzle] Instructional Aide and Course Developer ---- 2021 – Ongoing

- Currently helping teach new Julia language programming lab section of course
- Collaborated with Robotics Director Professor Jessy Grizzle to develop new course material

Michigan Autonomous Aerial Vehicles (MAAV) Team ----- 2020 – Ongoing

- Independently developed new environment setup manual to accelerate new member onboarding

Engineering 100 Robotic Arm Ergonomics Research Team Lead ----- 2020

- Group lead in designing test regimen to determine robot arm control scheme workload

Extracurriculars

Tau Beta Pi Engineering Honors Society Electee
Pinnacle High School Varsity Football Team
Pinnacle High School Key Club (High School Kiwanis) Vice President
University of Michigan Amateur Radio Club Member

Skills

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| <ul style="list-style-type: none">• Certified SolidWorks Associate• MATLAB, C, C++, Python, SQLite, Julia• Studying for FAA remote pilot certification• Microcontroller (Raspberry Pi, Arduino, Beaglebone) prototyping experience | <ul style="list-style-type: none">• Database analytics• Additive manufacturing• Git version control• Linux |
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