Ethan Wright

York, PA

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Languages: Java, Python, C, C++, C#, x86 Assembly, VHDL, JavaScript, Typescript
Frameworks: Angular, ReactJS, Bootstrap, Django, ROS2
Operating Systems: Linux, Windows, macOS, FreeRTOS
Debugging: GDB
Version Control: Git

EDUCATION

West Virginia University, Morgantown, WV   Graduation: July 2024
Bachelor of Science in Computer Science, ABET accredited program

Relevant Coursework

Operating Systems Structure | Analysis of Algorithms | Microprocessor Systems | Data and Computer Communications | Advanced Software Engineering | Artificial Intelligence | Real-Time Systems

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PROJECTS

EcoCar: Capstone Project | Spring - Fall 2023
- Completed research and design on perception and sensor fusion metrics using MATLAB and Simulink.
- Worked on the controller's sub-team creating a decentralized architecture to run our sensor fusion algorithm using MATLAB, RTMaps, and CAN communication through Python.

Defend the Republic Blimp Competition: Research | Spring - Summer 2024
- Designed and launched an autonomous blimp to capture and score neutrally buoyant game balls.
- Contributed to controls team in an Agile development environment, focusing on ROS2 structure and integration.
- Implemented computer vision algorithms to identify game balls and goals.
- Optimized the original codebase to run at 3x is original speed.

WORK HISTORY

West Virginia University, Morgantown, WV   February 2024 – August 2024
Undergraduate Research Assistant
- Assisted in the design, development, and testing of autonomous blimps for the Defend the Republic Competition.
- Collaborated with a multidisciplinary team to troubleshoot and solve technical issues.
- Conducted research and analyzed data to improve blimp performance and reliability.

Cheddars Scratch Kitchen, York, PA   June 2022 – April 2024
Waiter
- Adapted to a high-stress, fast-paced restaurant environment while maintaining excellent customer service.
- Demonstrated flexibility and problem-solving skills to ensure customer satisfaction during peak hours.

EXTRA CURRICULARS

Pi Lambda Phi | Member   February 2021 – May 2023
CyberWVU | Member   March 2021 – May 2024
EcoCar Volunteer | Team Leader   January 2024 – May 2024

References upon request