

ERNEST PELLEGRINO

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EDUCATION

M.S. in Computer Engineering

University of Massachusetts Lowell | GPA: 4.0 | August 2023

B.S. in Electrical Engineering

University of Massachusetts Lowell | December 2021

TECHNICAL SKILLS

- Programming Languages: Python, C/C++, Bash Shell
- Embedded Systems: Arduino, Raspberry Pi, Real-Time Systems
- Software Development: Unit Testing, Agile, Waterfall, Code Reviews
- Development Tools: Git, Visual Studio, ROS, MATLAB
- Operating Systems: Unix/Linux, Mac OS, Windows

WORK EXPERIENCE

Graduate Research Assistant

University of Massachusetts Lowell, Lowell, MA | May 2022 - Dec 2023

- Collaborated with interdisciplinary teams on human-robot interaction studies, reviewing and refining code to enhance software quality.
- Contributed to system documentation and test scenario creation for human-robot interaction experiments involving over 100 participants.
- Enhanced the quality of simulations by identifying key areas for improvement during project reviews, helping improve testing accuracy.

Teaching Assistant

University of Massachusetts Lowell, Lowell, MA | Sep 2021 - Dec 2023

- Assisted students in the development of real-time autonomous systems using C++, Python, and ROS, focusing on testing and validation of system components.
- Conducted code reviews and provided feedback to improve code quality and ensure adherence to software testing best practices.
- Supported the setup and testing of robotics projects, emphasizing software integration with hardware systems like Raspberry Pi and Arduino.

Engineering Intern

Pfizer, Andover, MA | Jan 2021 - Aug 2021

- Led the automation of internal asset management systems and optimizing database functionality.
- Participated in troubleshooting and testing efforts to ensure the quality and reliability of automation systems, contributing to overall process improvements.

PROJECT EXPERIENCE

Autonomous Coffee Delivery Robot

University of Massachusetts Lowell | Fall 2022

- Developed and executed unit tests for navigation and obstacle avoidance functions to ensure robustness in dynamic environments.
- Collaborated with team members to ensure thorough testing of system components and compliance with project requirements.