LOGAN RINALDI

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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA   May 2023
- B.S. in Robotics Engineering, Minor in Electrical and Computer Engineering, GPA 3.78/4.0
- Relevant coursework: Unified Robotics 1-4; Software Engineering; Calculus 1-4; Linear Algebra; Object-Oriented Programming; Principles of Communication Systems; Control Engineering; Embedded Computing in Engineering Design; Static and Dynamic Systems; Science, Technology, and Business Writing

SKILLS

- Proficient in C/C++, Python, JavaScript, Java, MySQL, MATLAB, HTML, CSS, and Visual Basic
- Experienced in using Linux, Windows, macOS, ROS framework, Git, SolidWorks, and Microsoft Applications

PROJECTS

Major Qualifying Project (MQP): Small-Sized Soccer Robots, WPI   Aug. 2022 – Present
- Member of a 10-person team creating a multi-agent system of autonomous robots to compete in RoboCup SSL
- Developing software in C++ to evaluate the playing field based on data from a shared external vision system, assign defensive or offensive roles, and determine when to pass, shoot, or dribble

Crowdsourcing App, WPI   Oct. 2022 – Dec. 2022
- Developed a crowdfunding app from concept to functional prototype as part of a 4-person team
- Conducted use case analysis, created storyboards, a UML diagram, and API Design
- Utilized the AWS cloud platform, JavaScript React Library, and MySQL
- Led the development, integration, and debugging of Lambda functions for the team

Ball Sorting Robotic Arm, WPI   Aug. 2021 – Oct. 2021
- Programmed a 3DOF robotic arm in MATLAB with two other project members to sort different colored balls into bins using trajectory planning, object classification, and object localization

WORK EXPERIENCE

Student Supervisor, WPI Sports and Recreation Center, Worcester, MA   Aug. 2020 – Present
- Supervise a team of control desk staff to complete daily tasks and ensure the success of events
- Inspect indoor and outdoor facilities to maintain a safe and clean environment

Engineering Intern, Teledyne Marine Inc., North Falmouth, MA   Jul. 2022 – Aug. 2022
- Updated and released electronic hardware test cart's legacy software to be compatible with new hardware
- Wrote test equipment drivers and scripts in Python in preparation for a future software rewrite
- Won first place in an intern design competition to design and build a prototype transportation cart attachment to increase the mobility and safety of the Autonomous Underwater Ocean Glider carts

Commercial Fishing Vessel Deckhand, F.V. Francis E., Bristol, RI   May 2014 – Dec. 2021
- Managed the handling, baiting, and repair of traps in a fast-paced and unpredictable environment while maintaining an organized and safe deck
- Designed a 3D printed measuring tool to improve the accuracy and speed of shellfish measurements, now used by multiple fishing vessels in the area

Senior Deckhand, Prudence Island Ferry, Bristol, RI   May 2020 – Aug. 2021
- Conducted engine room maintenance and office duties, including updating logs and passenger information
- Assisted the captain in daily operations, unpredictable situations, and hazardous conditions and trained new hires

LEADERSHIP

Varsity Coxswain, WPI Varsity Women's Rowing, WPI   Aug. 2019 – Present
Treasurer, Campus Recreation Advisory Council, WPI   Aug. 2021 – Dec. 2022

AWARDS

Presidential Award Finalist, WPI   Dec. 2022
Dean's List, WPI   Five Semesters
National Scholar Athlete, Collegiate Rowing Coaches Association (CRCA)   Jun. 2022
Women's Rowing National Championship Gold Medalist, NCAA Division III   May 2022
Rhode Island Representative, National Youth Science Camp   May 2019