

Sebastian Baldini

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I am a Robotics Engineering Major in my senior year of my undergraduate and first year of masters degree. I am looking for Internships and Co-ops in Engineering and Robotics Fields

Education

Worcester Polytechnic Institute

Master of Science | Robotics Engineering | 3.5 GPA

Aug 2024 - December 2025

Bachelor of Science | Robotics Engineering

Aug 2021 - May 2025

Work Experience

Drone Controls and Simulation Lead

Aug 2024 - Present

PEAR Lab WPI

- Programming trajectories for drone interception of flying objects
- Integrating and improving on internal simulation tools for improved use of perception with drones
- Programming with ROTS systems for drone control

Undergrad Researcher

Aug 2024 - Present

Soft Robotics Lab WPI

- Developing custom embedded sensors and encoders for robotic applications
- Researching soft body alternatives for modern mechanical systems and sensors
- Maintaining lab equipment and assisting others in developing and manufacturing soft body components

Prototyping Lab Assistant

Aug 2024 - Present

WPI Makerspace

- Operating and managing the 3d printers, CNC routers and laser cutters for students at WPI
- Assisting students in design and use for FDM 3d printers

Robotic Weapon Systems and Testing Intern

May 2024 - Aug 2024

Sig Sauer, Exeter NH

- Worked on mechanical and electrical design for automated weapon systems
- Programmed custom computer vision tools with high-speed video for testing and evaluation
- Managed and designed parts for both machining and SLS laser printing for multiple teams

Undergrad Research Assistant

Aug 2023 - May 2024

Robotic Materials Group WPI

- Lead undergrad researcher on novel encoding utilizing multi-material FDM printing
- Developing soft robotic quadrupedal robot to traverse while being highly resistant to physical damage
- Investigating flexible conductive filaments for future applications in sensing and robotics

Intern Production Assistant

May 2022 - Aug 2022

Millenium Slate | Granville, NY

- Operated and assisted in prototyping new industrial production lines
- Assisted in PLC debugging and FANUC robotic arm programming
- Programming Languages : C, C++, Python, Java, Rust, MATLAB, HTML, CSS

Leadership Experience

Control Electronics Lead | AIAA WPI

Aug 2023 - Jan 2024

AIAA WPI

- Lead the development of current control box system
- Drafted additional improvements to jet engine test standing including custom 6 degree force sensing
- Designed new test stand for jet engine fuel systems and sensor array processing

Merit Badge University Organizer | Alpha Phi Omega

Jul 2023 - Nov 2023

- Ran and organized a merit badge university for 100+ boy scouts to earn merit badges

Core Skills

Solidworks, C++, Python, Multi-Material 3D Printing, Robot Dynamics, Computer Vision