# 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