Sebastian Baldini

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Objective: I am a Robotics Engineering student looking for a summer internship position.

Education:

Worcester Polytechnic Institute (WPI), Worcester, MA

Bachelor of Science in Robotics Engineering, GPA 3.4 Graduating May 2025

Personal Projects:

Brushless Motor ESC Design:

- Designed a brushless motor ESC on a breadboard with custom Arduino code with a classmate
- Soldered a custom version on a perf board

OpenCV Personal Project:

- Developing a face recognition model to identify over 30 individuals accurately with Haar Cascades
- Integrating this system with a motion system to have the camera rotate and tilt to keep faces in frame

Activities/Leadership:

WPI Robotics Materials Group: August 2023 -> Present:

- Designing custom encoding solution with conductive filaments to replace magnets in soft body multi-material 3d printed quadrupedal robot

Omega Head of House, MBU Exec Chair: APO Omicron Iota Chapter: January 2023 -> Present

- Lead the organization of WPI's Merit Badge University with over 100 Boy Scouts coming to campus to earn merit badges.

Lead Test Stand and Control Systems Designer: AIAA Jet Engine Project: March 2023 -> Present

- Leading development of new control system for Wren 75 Jet Engine
- Developing remote server data display and collection system for new test stand

Experience:

Millennium/Evergreen Slate: Intern Production Manager, Granville NY: May 2022 -> August 2022

- Managed the loading and unloading of production lines involving CNC lasers and FANUC robotic systems
- Diagnosed and repaired bugs in code and sensor issues to improve the efficiency and uptime of production
- Developed production lines from their prototype phase into full production decreasing the number of required operators, time per cycle, and downtime of the entire line

Skills:

- Technical Skills: Circuits and Sensor Integration and Programming, C++, Java, Rust, Python, MATLAB
- Software: Solidworks (CSWA certified), Fusion 360, Onshape, Simulink, MultiSim, Linux

Additional Related Courses: CS 4341: Introduction to Artificial Intelligence, RBE 4815 Industrial Robotics