**Sebastian Baldini**

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**Objective:** I am a Robotics Engineering Major and Computer Science minor student looking for a summer engineering internship position.

**Education:**

Worcester Polytechnic Institute (WPI), Worcester, MA

Bachelor of Science in Robotics Engineering, GPA 3.5 Graduating May 2025

**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 robots
* Assessing the strength and quality of new mutli-material FDM printers for soft robotic applications

**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

**Personal/Class Projects:**

**Soft Robotic Encoding Journal Paper:**

* Currently finishing my development and starting the writing of a journal paper on custom embedded encoding solutions in soft robotics

**OpenCV Personal Project:**

* Developing a face recognition model to identify over 30 individuals accurately with the YOLOv8 neural network
* Designing a system to track faces with a camera and program motors to keep them in the center of the frame using feature detection

**NHRL Battlebot**

* Currently designing a 3 pound battle bot to compete in NHRL early next year

**Experience:**

**Millennium/Evergreen Slate: Intern Production Manage**r, 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

**Skills**:

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

**Additional Experience**: FIRST Robotics FTC Team 11536, CS 4341: Introduction to Artificial Intelligence, RBE 4815 Industrial Robotics