Sebastian Baldini

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Objective

Robotics Engineering major and Computer Science Minor in my Junior Year at Worcester Polytechnic Institute. I have many different fields I am currently working in including Industrial Robotics, Soft Body Robotics Research, and Computer Vision. I have hands on experience with mechanical design, software engineering, and electrical circuit/PCB design.

Education

Worcester Polytechnic Institute | Bachelor of Science | Graduating 2025:

  Robotics Engineering Major | Computer Science Minor | 3.5 GPA

Professional Experience

Undergrad Research Assistant, Robotic Materials Group: Aug 2024 -> Current
- Lead undergrad researcher on novel encoding utilizing multi-material FDM printing
- Working with PhD student to write research paper for soft robotic journal

Full Stack Developer, Computer Vision Server Plugin: Jan 2024 -> Current
- Working with an alum of my fraternity to integrate facial recognition into our photo server.
- Designing backend to recognize the individual members and tag photos based on who's in them
- Building frontend and UI to make plugin easy to use to minimize server downtime

Intern Production Assistant, Millenium Slate: May 2022 -> Aug 2022
- Operated and assisted in prototyping new industrial production lines
- Assisted in PLC debugging and FANUC robotic arm programming

Skills

Programming Languages: C++, C, Python, Java, Rust, MATLAB, HTML, CSS
Software: Solidworks Associate, Fusion 360, EAGLE PCB, ABB Robot Studio, Figma
Class Experience: Computer Vision, Industrial Robotics, Soft Robotics, Software Development, Controls

Class and Personal Project

Face Following Webcam: December 2023 -> Current
- Creating a custom solution to motorize a camera to track a user's face
- Utilizing OpenCV and Ultralytics video processing and object detection algorithms

Team Lead, Intro AI Class Project Oct 2023 -> December 2023
- Lead my team in the development of a lecture attendance tracking software using computer vision

Custom Brushless Motor Controller Jan 2021 -> May 2021
- Worked with former classmates to research and assemble a custom brushless motor controller
- Custom Arduino code and breadboard wiring

Leadership

Alpha Phi Omega: Merit Badge University Chair and Omega Head of House: May 2023- Dec 2023
- Organized a 2-day event with over 100 Boy Scouts coming from off campus to receive Merit Badges

Phi Kappa Theta: Brother and Interim Social Chair: Aug 2023 – Current
- Assisting in the planning and development of inter-fraternity events and assisting other positions with philanthropy event planning.