

Gil Borenstein

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Resourceful and self-motivated recent graduate looking to start a career in robotics.

Education

Bachelor of Science in Robotics (Math minor)

Plymouth State University, graduated August 2026

- Completed SLAM mapping projects and worked with ROS on multiple platforms.
- Conducted design and prototyping of soft robotic actuators for senior project
- Volunteered to set up tools and equipment on the Tormach 15L lathe. Self-taught on its operations and trained peers on the machine.

Associate of Computer Science

Landmark College, graduated May 2020

- Editor for Impressions, Landmark's literary Magazine
- Completed winter term study abroad program in London, England (January 2018)
- Member of the Landmark College cross country team

Professional Experience

Project Assistant (Robotics Department) - Plymouth State University

September 2023 - August 2026

- Supervised the PSU makerspace for day to day activities. This included helping students with projects, assisting faculty, instructing on manufacturing processes and methods as well as general upkeep of the space.
- Responsible for instructing and enforcing safety standards for all equipment used in the space while on shift.
- Performed routine maintenance and setup on machines and tools in the makerspace (e.g. 3D printers, laser cutters, CNC systems).

Retail Associate - Rand's Hardware

September 2023 - July 2025

- Worked register, completed merchandising tasks, and performed routine maintenance and repair.
- Participated in fostering continuing relationships with other small businesses and the community at large

Inventory Control Specialist - Stonewall Cable

February 2023 - April 2023

- Tracked inventory, cut cable, and prepared materials to go to assembly. Tracked which suppliers' materials were going into the product to maintain accountability and kept detailed records. Employment ended on good terms when an IT position failed to materialize.

Logistics Associate - Harbor Freight Tools

July 2020 - August 2022

- Stocked shelves, merchandised products, setup and maintained displays, and tracked inventory discrepancies.

- Worked register and frequently served large numbers of customers in small windows of time, particularly during extreme weather events and holidays.
- Operated forklift to unload trucks, move freight around the warehouse, and load products for customers.

Computer Science Support - Landmark College

September 2019 - February 2020

- Tutored students in computer science concepts ranging from basic logic to data structures and above. Helped with understanding of curriculum, problem solving, and creating a productive group work environment.

Personal Projects

- Deployed a private server system for hosting backups, files, movies, and utilities that has been expanded to multiple users.
- Designed and printed multiple objects and solutions for day-to-day use.
- Created digital assets for game development
- Informal tutoring of multiple peers in a variety of programming languages and technical topics.

Working Skills

- Strong programming/IT skillset
- Low voltage electronics
- 3D design and fabrication
- Rapid prototyping
- Hands-on maintenance and repair
- Technical documentation
- Math for engineering applications
- Frequently self-taught on equipment and programming
- Strong verbal and written communication

Programming and Software Skills

- **Languages:** Python, Bash, C/C++, C#, Java, Javascript, SQL
- **CAD / CAM Software:** Onshape, Fusion360, Mastercam, Lightburn, Orcaslicer
- **Robotics Software:** ROS/ROS2, Roboguide, Gazebo, FANUC karel
- **DevOps Tooling:** Docker, Tailscale, Caddy (reverse proxy)
- **Operating Systems:** Linux (Ubuntu, Debian, Arch), Mac, Windows
- **Misc Software:** Github, Microsoft Office Suite (Word, Excel, Onedrive, etc.), Google Workspace (Docs, Sheets, etc.)

Hardware Systems

- FANUC CRX-10I/A welding robot
- FANUC CR-7I/A Cobot
- Shopbot 3 axis CNC
- Tormach 15L CNC lathe
- Multiple 3D printing systems