



MILES HILLIARD

CONTACT

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EDUCATION

2023-2027
MEDFORD VOCATIONAL
TECHNICAL HIGH SCHOOL

- Robotics & Engineering
- Class of 2027

SKILLS

- CAD: Fusion 360
- 3D Printing:
 - Ender 3, Formlabs, Bambu Lab
- Electronics Engineering
 - PCB Design: Fusion 360, Eagle
 - Embedded Hardware
 - Electronics Prototyping
 - Circuit Debugging
- Programming & Networking
 - Python & C++
 - Linux & Self-Hosting
- Robotics:
 - MATE ROV
 - Vehicular Autonomy (CV, LiDAR, SLAM)
- Effective Communication In Groups
- Critical Thinking
- Fast-Paced Learning

PROFILE

Vocational High School junior at Medford Vocational Technical High School with hands-on experience in electronics engineering, embedded systems, and robotics. Lead Electrical Engineer on the Sunk Robotics MATE ROV team, with experience designing custom PCBs, developing embedded hardware, and integrating electronics and software into complex systems. Skilled in rapid prototyping, technical troubleshooting, and cross-disciplinary problem-solving. Combines practical engineering experience with technical leadership, independent learning, and a resourceful approach to design.

WORK EXPERIENCE

Stop and Shop

2025 - PRESENT

Cashier Department Head

- Supervise front-end operations and coordinate cashier breaks to maintain efficient store coverage.
- Assist 75+ customers daily with service inquiries, returns, lottery, and Western Union transactions.
- Train cashiers on register operations, self-checkout, and store policies.
- Manage service desk transactions, financial paperwork, and customer concerns.
- Investigate discrepancies and resolve issues while maintaining accuracy and professionalism.

Sunk Robotics

2024 - PRESENT

Electrical Engineering Head

- Lead electrical engineering efforts for a competitive MATE ROV team, coordinating electronics development, system integration, and troubleshooting.
- Design and develop custom PCBs and embedded systems for Sunk's ROVs, integrating hardware and software to meet competition requirements.
- Develop LiDAR-based perception, SLAM, and computer vision systems for an autonomous car, supporting environmental mapping, localization, and autonomous navigation.
- Co-author technical documentation detailing system architecture, operation, and safety procedures for complex robotics systems.

Tomhill Studio

Information Technology Head

2023 - PRESENT

- Lead IT at Tomhill Studio, overseeing network administration, hardware/software support, and implementing solutions to optimize productivity for all employees.
- Coordinated with team members to deploy and maintain secure IT systems, improving efficiency and minimizing downtime.
- Custom designed, formatted, and deployed website