Stephen Grenesko

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EDUCATION

University of Pittsburgh, Pittsburgh, PA
B.S. in Computer Science
Community College of the Air Force
A.S. in Applied Science

WORK EXPERIENCE

Mine Vision Systems, Pittsburgh, PA May 2025-present
Hardware Engineer Tech

- Lead hardware testing and repair on complex LIDAR and computer vision systems
- Designed and constructed testing fixtures to test for LIDAR unit degradation and cable connectivity
- Diagnosed issues with and adjusted I2C functionality of compute module and sensor controller boards
- Supported production/prototyping of Gen 2 systems, participating in new product development cycle
- Identified root cause of issues with advanced electromechanical systems returned from the field
- Conducted repair work on electrical and mechanical components for computing and sensor hardware

University of Pittsburgh - Open Lab, Pittsburgh, PA August 2022-2025
Lead Electronics Specialist

- Delivered technical support for 3D printers, laser cutters, and VR systems, ensuring minimal downtime
- Lead research and development of computer vision systems to facilitate efficient prosthetic manufacturing
- Managed robotics and IoT Arduino projects support, expanding lab capabilities in embedded prototyping
- Assisted 200+ students and faculty in designing and debugging embedded electronic systems
- Developed 3D-printed Raspberry Pi based info kiosk, streamlining information delivery to users
- Established dedicated soldering stations in the lab, enhancing electronics project throughput

PUBLICATIONS

- Stephen Grenesko, Abby Zimmerman, et al. "*Integrated Digital Workflows for Efficient Prosthetic Manufacturing"* National Conference of Undergraduate Research, 2025

SKILLS

Languages/Applications: Java, Python, C#, C, C++, Embedded C, React, HTML, Javascript, CSS MATLAB, x86 Assembly, React, Unity, Godot, Arduino, IoT, ESP32, Raspberry Pi, CircuitPython, PowerShell, Vim, Fusion360, AutoCAD, SOLIDWORKS, JupyterLab, MS Office, Adobe Illustrator, EasyEDA, Altium, Jira, OpenCV, PyTorch
Technical: Robotics, Computer Vision, LIDAR, Hardware Testing, I2C, UART, 3D Printing, Laser Cutting, Soldering, PCB Design, PCB Printing, Circuit Design, 3D Design, Automation, Circuit Analysis, Prototyping, Machine Learning, Metal Fabrication, Corrosion Prevention, Structural Repair, Machining, Microcontrollers, Full Stack, Back end, Front end, Multimeters, Oscilloscope, CNC Router, Power Supplies, Solder Rework