

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
- Developed electronic hardware inventory improvements improving repair turnarounds

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
- Managed robotics and IoT Arduino projects, 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

Pennsylvania Air National Guard, Pittsburgh, PA

September 2018-2025

Aircraft Structural Technician

- Fabricated critical aerospace hardware based on engineer technical data
- Proficiency with fabrication machinery used in aerospace design and repairs
- Conducted routine inspections of aircraft sealing and electromagnetic (EM) shielding
- Designed air traffic controller housing for use in aircraft communications

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

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