

Austin Lippert, EIT

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Professional Experience

FS-Elliott, Export, PA

Applications Engineer

August 2026 – Present

- Lead internal and external specification reviews to translate customer requirements to actionable design decisions.
- Analyzed plant demand and air audits to determine compressor size and staging to optimize turndown/efficiency.

Engineering Development Program

June 2025 – August 2026

- Rotated through Applications Engineering, Project Engineering, and Product Engineering departments.
- Served as the lead technical resource for centrifugal compressor orders from quotation to installation.
- Ensured compliance with rigorous customer specifications as well as industry standards such as API 672/614/670 and ASME SEC VIII ensuring accurate engineering design and on-time delivery.
- Supported manufacturing when problems arose on the shop floor.
- Supported order execution as primary contact for cross-functional departments and customers; facilitating project meetings and resolving specification conflicts, resulting in improved communication and project execution.

Industrial Sales and Manufacturing, Inc, Erie, PA

Manufacturing Engineer

July 2024 – May 2025

- Served as subject matter expert on application and fabrication methods for 5-axis manufacturing cell.
- Programmed a Haas UMC 750 and other Haas/Mazak equipment using Fusion 360 and Mastercam.
- Designed custom programming workflow and fixturing methods for milling and turning applications resulting in reduced cycle time, decreased cost and downtime and overall efficiency.
- Oversaw the process of manufacturing precision parts while maintaining ISM's ISO 9001 standard.

Gannon University Center for Manufacturing and Technology, Erie, PA

Senior Makerspace Lab Engineer

August 2021 – May 2025

- Supported students, faculty, and local businesses with R&D and product design using rapid manufacturing and prototyping as well as advanced engineering design using FEA/CFD (Ansys Mechanical/Fluent).
- Trained team members on the proper operation and assembly of new equipment resulting in improved safety and knowledge in the workplace.
- Worked and implemented Six Sigma and Lean ideas in task management and standard operating procedures (SOPs) to create a flexible work environment and a constant flow of information.
- Acted as president of Gannon University Robotics and Development organizing STEM outreach.
- Served as subject matter expert in design for manufacturing using various additive and subtractive technologies (FDM, SLA, SLS, DMLS, material/binder jetting, 3/5-axis milling, turning, laser/plasma cutting).

Education

Gannon University, Erie, PA

May 2025

Mechanical Engineering, Bachelor of Science

GPA: 3.6

Project Experience

Tensile Tester

- Designed entire custom electromechanical system optimized for testing desktop additive parts.
- Programmed the system measure material properties of 3D-printed parts for more accurate FEA modeling.
- Integrated custom logic (python) and PCBs to ensure consistent and repetitive data transfer and operation.

Autonomous Part Stamping (Senior Design Capstone Project)

- Designed suite of end of arm vacuum tooling for FANUC and Universal Robotics cobot systems, enabling safe and efficient part transfer.
- Integrated press brake part marking and OCR verification into robotic cell, optimizing process flow and automating part tracking, which increased throughput and reduced scrap.

Certifications and Licenses

- Passed Professional Engineering Exam, Fundamental of Engineering (FE), SOLIDWORKS CAD Design Professional (CSWP), Lean Six Sigma Green Belt Certified (LSSGB), OSHA 30 Hour General Industry, CNC Machine Fundamentals: Saunder's Machine Works: Ham Radio Amateur Extra (NA3V)