

# Austin Lippert, EIT

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## Professional Experience

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### FS-Elliott, Export, PA

*Project Engineer*

June 2025 – Current

- Served as the lead technical expert for new centrifugal compressor orders, reviewing specifications (API 670, 614, 672), which ensured on-time delivery and compliance with customer requirements.
- Supported as primary contact for cross-functional departments and customers; facilitating project meetings and resolving specification conflicts, resulting in improved communication and project execution across teams.

### Industrial Sales and Manufacturing, Inc, Erie, PA

*Engineering Intern*

August 2024 – May 2025

- Designed and implemented custom work-holding and fixturing solutions for 5-axis manufacturing, collaborating with machinists to optimize part stability and efficiency, resulting in improved part precision and faster setup times.
- Enhanced 5-axis CNC mills processes by creating workflows in Fusion 360, which increased throughput and reduced programming time, supporting company goals for higher productivity (ISO 9001 Compliance).

### Gannon University Center for Manufacturing and Technology, Erie, PA

*Senior Makerspace Lab Engineer*

August 2021 – May 2025

- Supported students, faculty, and Erie businesses in research and rapid prototyping by designing and manufacturing custom parts and processes, enabling successful project completions and expanding lab capabilities.
- Applied Six Sigma and Lean principles to manage tasks and SOPs in the lab, leading initiatives to standardize workflows and enhance communication, resulting in a more flexible work environment and consistent information flow.
- Served as president of Gannon University Robotics and Development, organizing STEM outreach events and coordinating volunteers, driving increased campus and community engagement in robotics and technology.

## Education

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### Gannon University, Erie, PA

May, 2025

Bachelor of Science in Mechanical Engineering

GPA: 3.6

## Project Experience

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### Senior Design Capstone Project

- Designed end of arm vacuum tooling for robotic arms, enabling safe and efficient part transfers between workstations, resulting in streamlined automation and improved operational reliability.
- Integrated press brake part marking and OCR verification into robotic workflows, optimizing process flow and automating part tracking, which increased throughput and reduced manual errors.
- Led team in prototyping and testing automation cells for job shop parts, coordinating design, programming, and debugging, achieving successful implementation and consistent part marking verification.

### Gear Box

- Designed a 3-stage helical gearbox with involute spline geometry for machine design class, calculating gear dimensions and performance in Excel, resulting in a validated speed reducer/torque increaser meeting design requirements.
- For a machine design course project, developed custom Excel tools for gear sizing and verification and performed FEA to confirm analytical calculations, resulting in a robust and validated 3-stage helical gearbox design.

## Certifications and Licenses

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- 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