

Samuel J. Lautenbach

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Experiences

Package Innovation Intern - Silgan Closures – Downers Grove, IL

May 2025 – August 2025

- ❖ Conducted rapid prototyping using SLA 3D printing to create custom chuck adapters and closure components, including troubleshooting and iterative design improvements in CAD (SolidWorks).
- ❖ Authored a comprehensive SOP for SLA printing and maintenance, covering STL export, post-processing, and safety protocols for internal team training.
- ❖ Performed aluminum tensile and hardness testing, authoring a comprehensive SOP comparing coated vs. uncoated and thermally treated samples; maintained detailed documentation on over 100 samples for future QA benchmarks.
- ❖ Collaborated cross-functionally with chemists, material managers, and metal shop technicians to execute mechanical testing and product analysis
- ❖ Designed and printed a modular system compatible with varying closure sizes, improving operational flexibility on the test production line, influencing the overall production turnaround.

AI Operations Specialist/Automotive CRM & Sales Automation - Truworth Automotive/Hour Motors

April 2026 – Present

- ❖ Designed and managed AI-powered CRM workflows to streamline lead tracking, customer follow-up, and sales pipeline organization.
- ❖ Implemented automation tools for vehicle intake and inventory management, improving listing accuracy and reducing manual data entry.
- ❖ Created automated response and follow-up processes to support faster, more consistent communication with prospective buyers.
- ❖ Analyzed lead activity, response times, and CRM data to identify opportunities for improved sales performance and operational efficiency.
- ❖ Collaborated with sales and management teams to troubleshoot system issues, refine workflows, and improve adoption of digital tools.
- ❖ Developed standard operating procedures for CRM usage, inventory scanning, and automation processes to ensure consistent team execution.

Skills

- ❖ Proficient in Solidworks - Modelling, Design, Drawings, Surfaces, Meshes
- ❖ Proficient in TeamCenter // NX - Modelling, Design, Evaluation
- ❖ Proficient in Autodesk- Fusion 360 & Inventor - Modelling, Design, Surfaces, Drawings
- ❖ Proficient in 3D Printing: SLA & FDM workflows, resin handling, post-processing, rapid prototyping
- ❖ Proficient in Excel & Google Spreadsheets (Presentation Graphic Generation + Data Processing)
- ❖ Proficient in Microsoft Word & Google Docs, including formatting and collaboration features
- ❖ Technical Documentation: Instructional writing, maintenance guides, lab procedures
- ❖ Cross-functional Collaboration: Chemists, materials engineers, production teams

Critical Thinker. Strong Communicator. Adaptable

Purdue University Undergraduate, Class of 2026

Major: Engineering Technology Education // Minor: Design and Innovation

AI & Agentic Systems

- ✧ Proficient in LangChain & LangGraph – Building LLM pipelines, tool-calling agents, and structured agent workflows
 - ✧ Proficient in Ollama & Docker – Running and managing local large language models and containerized AI environments
 - ✧ Experience with OpenClaw – Experimenting with AI agents interacting autonomously within software environments
 - ✧ Familiar with LLM Platforms – ChatGPT, Claude, Mistral, and Qwen for research, automation, and workflow development
 - ✧ Agentic AI Workflows – Designing structured prompts and multi-step decision pipelines for autonomous task execution
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Education

Purdue University, West Lafayette, Indiana, Expected Graduation: December 2026

Major - Engineering Technology Education

- Major Skills: SolidWorks, Fusion 360, Inventor, NX, Microsoft Excel, Google Sheets, Materials Processing, Manufacturing and Fabrication, and Workplace and Lab Safety
- Major Concentration: Real World Problem Solving, Engineering Design, Prototyping, Robotics, Automation, Construction, and Foundations of Technology and Engineering Concepts

Minor - Design & Innovation

- Minor Skills: Critical Thinking, Creative Ideation and Innovation, Problem Solving, Cross-Disciplinary Collaboration, Design for Market and Distribution, and Ethical and Sustainable Design

Certificate - Entrepreneurship and Innovation

- Certificate Skills: Venture Evaluation, Business Model Development, Market Research, Financial Analysis, Business Literacy, and Professional Skills