

SEIF ALI

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Education

University Of Cincinnati

Bachelor of Science in Mechanical Engineering Technology

Present – May 2027

Cincinnati, Ohio

Experience

Marmon Holding Inc

May 2025 – Present

Project Management Intern; Product Development Engineering Intern; Part-Time Mechanical Engineer

Harrison, Ohio

- Facilitated cross-functional meetings with marketing, sales, quality, engineering, and third-party partners to ensure projects stayed on schedule and issues were addressed early.
- Supervised and trained a team of 15 associates responsible for assembling ACD quarter pallets shipped to Home Depot, improving production efficiency by 12% through process optimization, equipment upgrades (nail guns), and workforce training.
- Collaborated with UL to obtain product certification for a universal meter hub by coordinating and conducting compliance testing, troubleshooting technical issues, and working closely with external engineering teams to ensure all UL requirements were successfully met.
- Recognized as Intern of the Year, reflecting exceptional project outcomes, technical skills, and teamwork.
- Created new drawings, designs, and assemblies for a private label customer generating \$2.04M in annual sales and \$640K in Operating Income.
- Was able to partially lead my own NPD process.
- Currently working on 3 patentable designs.
- Reverse engineered competitor products to help improve our design and make it more convenient to customers.
- Updated the NPD and ECN processes with new excel automated template and an updated steps to follow.
- Collaborated and hosted meetings with engineers, spearheaded design reviews to continuously improve product lines.
- Created detailed work instructions.

Brighton Science

January 2024 – January 2025

Mechanical Engineering Intern; Part-Time Engineering Intern

Cincinnati, Ohio

- Helped Electrical Engineers with board layouts and soldering different types of resistors and connections to boards and wires.
- Created and released BOM outputs for different Solid Edge assemblies.
- Evaluated draft files and parts to ensure the tolerances are correct, so there are no production issues when the devices come to assembly.
- Developed and implemented different types of tests to resolve tether, hydraulic transducer, brushless pneumatic pumps, and silicone contamination issues.
- Managed part number system to maintain organization and accuracy in company files.
- Re-designed parts on flagship product lines to improve functionality and a more comfortable customer experience.
- Designed tools for robots, successfully deployed to clients worldwide.
- Resolved part issues to ensure optimal functionality and created work instruction documents and trained production workers so they can apply the solution correctly.
- Collaborated and hosted meetings with engineers, spearheaded design reviews to continuously improve product lines.
- Created detailed work instructions for internal and external partners.

Projects

Car Rebuild

December 2025 - Present

Builder

- Led full teardown and rebuild of a crash damaged vehicle, performing structural inspection, root-cause failure analysis, and mechanical system diagnostics across drivetrain, suspension, and frame components.
- Planned engine removal and performance tuning strategy, integrating structural repairs and system-level compatibility considerations during reassembly.
- Developed and managed a detailed project budget and parts procurement plan, balancing cost, quality, and build objectives.

Mobility Aid

August 2025 – December 2025

Project Lead

University Of Cincinnati

- Led a cross functional team in the redesign of a low cost adjustable height mobility aid device, assigning tasks and overseeing concept development to enhance safety, ergonomics, and structural stability.
- Engineered cost-effective design improvements including a lever lock height adjustment system, outward-angled legs for increased stability, and modular comfort handrests while selecting durable materials (6061-T6 aluminum, PETG, rubber) for strength and longevity.
- Balanced performance and affordability by conducting load testing and failure-point analysis while maintaining a competitive production cost to deliver meaningful value to end users.

Full Stack Web Development

January 2026 - Present

Developer

- Designed, developed, and deployed a fully functional web based platform using V0, defining system architecture, user workflows, and scalable UI/UX while managing the complete development lifecycle from concept to launch.

Skills

Languages & Software: Solidworks, Python, MATLAB, VBA, LabVIEW, AutoCAD, Siemens Solid Edge, Siemens NX, Excel. English, Arabic.