

Saul Uribe

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Mechanical engineer and certified SolidWorks professional with experience in product development, plastic/metal part design, product testing, data analysis, and rapid prototyping. Proficient in CAD, FEA analysis, and working with cross-functional teams to deliver innovative solutions.

Software Skills

SolidWorks | CAD | Slicers | Excel |
Mathcad | Power BI | Office 365 | C++

Technical Skills

3D Printing | Plastic Part Design | PDM | Product Testing |
Soldering | Data Processing | ERP | Documentation

Soft Skills

Problem Solving | Collaboration | Technical
Writing | Process Improvement | NPD

Work Experience

NSI Industries | New Product Engineer | Huntersville, NC

Jan 2024 – Present

- Design injection molded plastic and sheet metal housings for new/existing mass-produced electrical products using SolidWorks and FEA.
- Established a 3D printing system and process to test the design functionality before tooling, greatly reducing costs.
- Work with electrical engineers to streamline PCB integration and wiring into product housing.
- Collaborate with the engineering team to identify and resolve quality issues leading to process improvements.
- Build test fixtures and operate lab equipment to prepare/test samples and collect data in compliance with UL standards

NSI Industries | Mechanical Engineering Intern | Huntersville, NC

May 2022 – Jan 2024

- Revise engineering drawings for manufacturing and customer-facing applications across new and existing products.
- Convert legacy hand-drawn engineering drawings into digital format and updating in PDM system.
- Reverse-engineer various electrical connectors to 3D models and 2D drawings using SolidWorks for new vendor RFQs leading to cost reductions.
- Developed a competitor cross-reference tool in Power BI with over 13,000-part numbers, improving productivity and customer conversions.

Education

University of North Carolina at Charlotte | B.S. Mechanical Engineering | 3.60 GPA Cum Laude

Aug 2021 – Dec 2023

Mitchell Community College | Associate in Engineering | 3.70 GPA

Aug 2018 – May 2021

Projects

TORK 4 Circuit Digital Timer – NSI Industries

Jan 2024 – Present

- Collaborated with product managers and marketing to understand industry needs to develop an expandable digital timer solution.
- Optimized design of metal housing, ergonomic keypad, and protective wiring cover to reduce costs and enhance customer experience.

TORK In-Wall Digital Timer – NSI Industries

Jan 2024 – Present

- Improved design using customer feedback and innovative solutions. Enhanced visibility, ergonomics, and battery reserve to outperform competitors.
- Conducted FEA and 3D-printed prototypes to ensure safety compliance and functionality before investing in tooling.

Advanced Vertical Farm (Finalist) – Cellular Farms – UNCC Senior Design

Jan 2023 – Dec 2023

- Collaborated with a multidisciplinary team to design and implement a partially automated indoor vertical farm improving the current process.
- Designed plant pallets, managed data, and conducted simulations using FEA. Oversaw fabrication and presented project updates to owners

Remote Controlled Robot (1st Place) – UNCC Junior Design

Aug 2022 – Dec 2022

- Challenged to design and build a robot for secure payload transport. Performed engineering calculations to design around power, physical, and safety constraints and took ownership of designing chassis and gripping mechanism, ultimately leading to robot earning 1st place in all categories.

Certifications and Other Experience

Certified SolidWorks Professional – Mechanical Design (CSWP-MD)

Mar 2022 – Present

CNC Machining Training – ACE – America's Cutting Edge

Nov 2021 – Present

Experience with AM machines (FDM, SLA, SLS) in professional, academic, and personal environments

Aug 2021 – Present

- (Formlabs, Stratasys, Prusa, Bambu Lab, Ultimaker, Creality)