

SAM NGUYEN

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EDUCATION

Iowa State University

Bachelor of Science, Mechanical Engineering, 4.00 GPA

Expected Graduation: May 2029

Ames, Iowa

EXPERIENCE

Thingz

May 2026 – Aug. 2026

Design Engineering Intern

Galena, Illinois

- Designed and managed large electrical substations in Autodesk Inventor using point cloud data and engineering drawings to provide a digital twin representative of real-world equipment and environment
- Developed models of electrical substation equipment, producing over 1,000 parts and subassemblies
- Rapidly created and managed a library of standardized substation parts and assemblies to streamline the CAD modeling process, reducing design and assembly turnaround time from a few hours to mere minutes
- Operated 360° LiDAR scanners and cameras to capture point cloud data across entire substations on-site
- Prepared weekly reports on modeling insights and progress, contributing to the project timeline
- Consistently adhere to modeling principles and requirement standards to ensure proper integration with existing parts, assemblies, and naming conventions

EXTRACURRICULAR

Formula SAE Electric Vehicle (FSAE EV)

Sep. 2025 – Present

Suspension Subsystem Member

Iowa State University

- Independently designed and manufactured a static strain gauge calibrator, involving statics calculations, hands-on tooling experience, and welding, culminating in significant data acquisition for the team's R&D of strain gauges
- Created and implemented various 3D-printed jig parts to ensure the precise location of critical suspension components on all 4 corners of the vehicle, such as the front and rear A-Arms, push rods, and tabs
- Researched and designed various solutions to connect suspension blade components to the anti-roll bar
- Collaborated with external design teams to ensure seamless integration between suspension parts
- Analyze data on bearing options to determine the best solution for the specific use case
- Precisely 3D modeled parts to be easily scalable through use of parametric modeling techniques

SolidWorks Club

Aug. 2025 – Present

Sophomore Representative

Iowa State University

- Obtained SolidWorks CSWP Certification through weekly CAD assignments and rigorous final 3-hour assessment which tested part modeling, design iteration, and assembly skills, scoring a flawless 100%
- Elected as Sophomore Representative after first year of membership demonstrating rapid growth and mentorship
- Assisted club members in learning core SolidWorks skills by providing 1-on-1 feedback and accumulated experience
- Built a stronger knowledge base within the club by encouraging peer-to-peer learning and hands-on practice
- Recruited new members by promoting the club to underclassmen and first-year Mechanical Engineering students, growing engagement with CAD across campus
- Review and evaluate engineering drawings in accordance with ASME Y14.5 and GD&T standards

PROJECTS

Fishing Pole Holder

Sep. 2025 – Nov. 2025

- Assessed design requirements and measurements for the product to ensure proper integration
- Developed and revised product design using paper sketches and SolidWorks CAD models
- Manufactured and constructed final design through use of 3D printing, successfully creating a solution

SKILLS AND CERTIFICATIONS

SolidWorks CSWP, Autodesk Inventor, 3D Printing (FDM), Python, Microsoft Office (Excel, Word, PowerPoint)