

John Rehagen

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EXPERIENCE

Rivian Automotive

Normal, Illinois

Manufacturing Engineering Intern, Body Tophat

May-December 2023

- Responsible for two robot lines through a rerate project. Supported and directed integrators process and mechanical design, created and evaluated RFQs and owned 50% and 100% design reviews of the lines.
- Led the manufacturing engineering of 19 body tophat service parts. Evaluated manufacturability and drafted relevant RFQs across three integrators and seven manufacturing lines. Planned implementation and production schedule through Q4 2024.
- Coordinated root cause investigation of fastener installation failures. Investigated and identified inaccuracies in snowflake dataset, amended data filter and used learnings to inform \$250k capex expenditure.
- Coordinated installation and commissioning of several end effectors and fixtures, subsequent quality tracking and remediation measures.
- Worked crossfunctionally to investigate the rescheduling of welds within a robot line; eliminated installation of four robots and saved capex of ~\$1M.

Texas A&M Sounding Rocketry Team

College Station, Texas

Manufacturing and R&D Manager, Vehicle Structures

May 2022-Present

- Working to design, evaluate, and manufacture components of a 30,000 ft-class carbon composite airframe.
- Testing and benchmarking new carbon composite manufacturing processes for future vehicles, focusing on characterizing anisotropic carbon fiber, filament wound carbon fiber tubes, and custom pressure vessels.

Vex Robotics

Greenville, Texas

Mechanical Design and Testing Intern

June-August 2022

Mechanical Engineering Intern

June-August 2021

Vex is the world's largest supplier of educational robotics products and programs

- Used SOLIDWORKS to prototype and finalize the design of injection molded, punched, and fiber lasered parts while working with manufacturing team to ensure design for manufacturability
- Designed, ran, and analyzed tests to validate function of new products and define defect tolerance ranges
- Led multiple projects from ideation to multi-iteration design and in house production

Design Center Machine Shop

College Station, Texas

Manufacturing Technician

January 2022-May 2022

- Manufactured parts for student projects and university research using lathes, mills and more.
- Designed and toleranced parts for student research groups to minimize cost while ensuring adequate function.

EDUCATION

Texas A&M

College Station, Texas

Bachelor of Science in Industrial Engineering

May 2026

LEADERSHIP

Freshmen Reaching Excellence in Engineering ("FREE")

College Station, Texas

Sophomore Director of Internal Development, Freshman Socials Member

May 2022-May 2023

FREE is the primary leadership organization for freshmen engineers at Texas A&M.

- Organized multiple events for >150 people, a big-little program and \$5000 philanthropic participation.

SKILLS, CERTIFICATIONS

Technical Skills: SOLIDWORKS CAD FEA, Excel VBA, Catia, Delmia, Jira, AutoCAD, Python, Microsoft Excel & Suite, Computer Vision Object Detection Machine Learning (YOLO), Eagle Scout