
Professional Experience

SpaceX

Supplier Development Engineer II – Starlink

July 2024 – Present

- Own all cables from early phase development through manufacturing and delivery to line, solving issues at suppliers, analyzing risk, and reviewing and approving supplier PPAPs
- Initiate design changes at vendors to improve field reliability performance of cables
- Manage accessory cable development, timeline, and delivery to ensure a wide range of cable options for customers with unique use-cases and installation locations in mind
- Analyze vendor yield performance to create cost, efficiency, and yield improvements in manufacturing process including implementation of AOI, automation, and process elimination
- Root cause field failures, returns, and factory detected issues on parts received from vendors and implement robust corrective actions to ensure proper prevention and detection methods
- Conduct DFM reviews of power and ethernet cables on Starlink consumer products, providing feedback to ensure high part yield, rate, and quality
- Develop and implement incoming inspection plans to monitor part quality and reliability according to drawing requirements following AQL standards
- Developed and implemented audit checklist based on quality and manufacturing requirements for high volume cable production to streamline vendor qualification
- Audit vendors to ensure robust quality management systems to AS9100 and ISO9001 requirements

Supplier Development Engineer – Starlink

June 2023 – July 2024

- Drove part yield improvements of more than 20% across 3 parts creating an estimated yearly cost saving of more than \$2 Million in piece part cost
- Managed screening and containment actions for over 200,000 cables with a suspected electrical defect to prevent product arrive to customer in a non-usable state
- Reviewed CpK data, First Article Inspection Reports, Gage R&R reports, and outgoing quality reports for more than 70 parts to verify the parts are meeting production intent throughout manufacturing
- Implemented cable vendor introductory assessment to screen potential vendors earlier and ensure strong business partners for future production and development
- Generated an expected \$6 Million in part cost savings over the upcoming two years through evaluating vendor competitiveness and sourcing a new vendor
- Delivered 24 parts to production of kits or accessories meeting production timeline targets with completed part qualification and verification

Rivian Automotive

Interior Materials Engineer – Rolled and Soft Goods

July 2022 – February 2023

- Owned soft goods commodity, and led material validation, prototyping, data analysis, and design of experiments for textiles, coated textiles, laminates, and other trim materials
- Investigated production issues for materials with multiple suppliers to implement preventive actions and ensure material robustness in vehicle
- Collaborated with program engineers, program management, design studio, quality engineering, and suppliers to deliver quality materials in a timely manner to meet program and design requirements

Interior Core Engineering Intern

Summer 2021

Interiors Engineering Intern

Summer 2020

Design Projects

Water Temperature Control Mechanism (Senior Design)

Spring 2022

Responsibilities: Testing, Project Management, Circuit Design, Product Design, Arduino, C++, Solidworks

Skills

CAD | FEA | Root Cause | Failure Analysis | Test | Prototyping | Python | DFMEA/PFMEA | GD&T | Manufacturing

Education

Purdue University – Main Campus

Spring 2022

Bachelor of Science in Mechanical Engineering – Honors

3.7/4.0