

Trevor J Ladner

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Professional Experience

SpaceX

June 2023 – Present

Supplier Development Engineer – Starlink

- 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
- Drove part yield improvements of more than 13% creating an estimated yearly cost saving of more than \$2 Million in piece part cost
- 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
- Managed screening and containment actions for over 200,000 cables with a suspected electrical defect to prevent produce arrive to customer in a non-usable state
- Review 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
- Conduct DFM reviews of power and ethernet cables on Starlink aero-terminal and user-terminal products, providing feedback to ensure design manufacturability and reliable part inspection
- Develop and implement incoming inspection plans to monitor part quality and reliability according to drawing requirements following AQL standards
- Generated an expected \$6 Million in part cost savings over the upcoming two years through evaluating vendor competitiveness and sourcing a new vendor
- Audit vendors to ensure robust quality management systems to AS9100 requirements

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
- Increased the sustainability of vehicles by driving development of 9 new materials

Interior Core Engineering Intern

Summer 2021

- Managed and analyzed test data for all interior systems (500+ components) to meet compliance with FMVSS 302 and other federal certification standards
- Oversaw deployments and part configuration for curtain airbag functionality testing

Interiors Engineering Intern

Summer 2020

- Led development of 40+ testing specifications for vehicle interiors based on ASTM, ISO, SAE, and FMVSS standards to ensure robust testing of all interior products

Design Projects

Water Temperature Control Mechanism (Senior Design)

Spring 2022

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

2 Player Pinball/Foosball Toy (Toy Design Course)

Spring 2021

Responsibilities: Surface Model Design, Linkage Mechanism Design, Creo

RC Car (Toy Design Course)

Spring 2021

Responsibilities: Steering Mechanism Design, Packaging Design, Creo

Skills

CAD | FEA | CATIA | Collaboration | Validation | 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