

Trevor J Ladner

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Professional Experience

SpaceX

Supplier Development Engineer II – Starlink

July 2024 – Present

- Own all cable products through full development cycle to product end-of-life ensuring robust manufacturing, long-term reliability, and consistent part quality.
- Solve vendor-caused issues, develop and approve supplier PPAPs, and analyze manufacturing risk for high volume consumer electronic products at volumes of more than 250,000 per week
- Managed successful ramps of 4 programs and more than 10 accessory products with a total of more than 100 unique part SKUs while maintaining highest quality and clear to build status while hitting targeted timelines with vendors and internally
- Perform design changes at vendors to improve field reliability or quality performance of cables
- Delivered 6 accessory products to market owning design release, vendor bring-up, and cross-functional team management to complete all necessary tasks for product release in a 3-month period
- Analyze vendor yield performance to create cost, efficiency, and yield improvements in manufacturing process including implementation of AOI, automation, and process elimination
- Conduct detailed DFM reviews for all internal drawings and vendor manufacturing processes to ensure high-rate manufacturing while achieving good part quality and design-intent products
- Initiated a plan to save more than \$10M in net cost by developing rework procedures to reuse overstocked material saving costs in scrap, liability, and new parts
- 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
- Drive product development of second source vendors including ownership of design verification and reliability testing, process qualification, and initial delivery of parts to the line with no visible impact
- Design and prototype rework fixtures using 3D printing, water-jet, and other machining resources to save scrap costs by reworking products into usable/production-intent state
- Act as a ‘voice of the customer’ to ensure that products meet intended customer’s needs by focusing on cost, ruggedization, or use case and drive design decisions and manufacturing decisions based on the outcomes of these studies

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 \$1 Million in piece part cost
- Developed and implemented standard processes for vendor bring up and down-selection including a cable audit checklist, supplier evaluation survey, and monthly quality reviews
- Audited 7 vendors to ensure robust quality management systems to ISO9001 requirements
- Managed screening and containment actions for over 200,000 cables with a suspected electrical defect to prevent product arriving to customer in a non-usable state
- Generated an expected \$6 Million in cost savings over the upcoming two years through evaluating vendor competitiveness and sourcing a new vendor

Rivian Automotive

Interior Materials Engineer – Rolled and Soft Goods

July 2022 – February 2023

Interior Core Engineering Intern – Physical Validation

Summer 2021

Interiors Engineering Intern – Physical and Materials Validation

Summer 2020

Technical Skills

CAD: NX, CATIA, Solidworks, Creo

Analysis: GD&T Trained, Root Cause, DFMEA, PFMEA, FEA, Hand-Calculations

Programming: Python, MATLAB, C++, Arduino

Testing: DOE Creation, Design Validation, Incoming Inspection, Sorting and Screenings

Education

Purdue University – Main Campus

Spring 2022

Bachelor of Science in Mechanical Engineering – Honors

3.7/4.0