# Trevor J Ladner

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### **Professional Experience**

# SpaceX

June 2023 - Present

Supplier Development Engineer - Starlink

- Act as the technical point of contact to suppliers, solve emerging issues at suppliers, analyze risk, and review production plans to grant PPAP for electrical harnessing and cable parts
- Perform root cause analysis of field failures to determine corrective actions for part robustness
- Delivered electromechanical parts that meet quality and design requirements for high volume consumer electronic devices
- Review CpK data, First Article Inspection Reports, Gage R&R reports, and outgoing quality check data to verify that parts are meeting production intent throughout production
- Implement manufacturing and inspection process improvements at suppliers to expedite part production rate and improve part quality for both aviation-grade and consumer components
- 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
- Ensure aviation harnessing components meet the documentation and drawing requirements necessary to be compliant with FAA restrictions on air worthy components
- Develop and implement incoming inspection plans to monitor part quality and reliability according to drawing requirements following AQL standards
- 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 Runner up in the Malott Innovation Award in Mechanical Engineering

# 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 | CATIA | Collaboration | Validation | Rapid Prototyping | Python | DFMEA/PFMEA | GD&T | Manufacturing

#### Education

#### Purdue University - Main Campus

Spring 2022