

Trevor Ladner

He/Him | TrevorJLadner.com | LinkedIn.com/in/TrevorJLadner

Professional Experience

SpaceX – Hawthorne, CA June 2023-Present

Supplier Development Engineer – Starlink

- Conduct DFM reviews of all harnessing components and provide feedback to ensure manufacturability
- Perform Root Cause Analysis of failures to implement holistic corrective actions for robust part quality
- Implement manufacturing and inspection process improvements at suppliers to expedite part production rate and part quality for aviation grade components and consumer components
- Act as the technical point of contact to suppliers, solve emerging issues at suppliers, and review production plans to grant PPAP for electrical harnessing parts

Rivian Automotive – Irvine, CA and Plymouth, MI

TRAIL Engineer – (Interior Materials Engineer – Rolled and Soft Goods) July 2022-February 2023

- Owned the soft goods commodity handling materials validation, prototyping, data analysis, design of experiments, and material testing for textiles, coated textiles, laminates, and other trim materials
- Root-caused production issues for materials with multiple suppliers to implement preventive actions and ensure material robustness in vehicle and timely delivery
- 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
- Developed first generation of material specifications for all rolled good materials based on ASTM, ISO, SAE, and DIN specifications and reliability requirements for early concept proving
- Drove development of 9 new materials that increased the sustainability of vehicles
- Oversaw management of more than 10 suppliers and 30 materials at any given time

Engineering Intern – Interior Cores June 2021-August 2021

- Managed and analyzed test data for all interior systems, over 500 components, to meet compliance with FMVSS 302 and other federal certification standards
- Oversaw test deployments and part management for curtain airbag functionality requirements

Interiors Engineering Intern June 2020-August 2020

- Led development of more than 40 testing specifications for vehicle interior applications based on ASTM, ISO, SAE, and FMVSS standards to support robust testing of all interior products

Purdue University Engineering Honors Program – West Lafayette, IN

Lead Peer Teaching Assistant August 2019-May 2022

Magna International – Seating Division – Novi, MI

Product Engineering Intern May 2019-August 2019

Design Projects

Water Temperature Control Mechanism (Senior Design) – West Lafayette, IN January 2022-May 2022

Testing, Electronics and Coding, Project Management, Circuit Design, Product Design

2 Player Pinball/Foosball Toy (Toy Design Course) – West Lafayette, IN January 2021-May 2021

Surface Model Design, Linkage Mechanism Design

RC Car (Toy Design Course) – West Lafayette, IN February 2021-March 2021

Steering Mechanism Design, Packaging Design

Leadership

Honors College Racing Crew Go Kart Team – West Lafayette, IN August 2018-May 2022

Crew Chief, Assistant Director, Public Relations Lead, Sponsorship Lead

Skills

CAD | CATIA | Material Development | Collaboration | Validation | Rapid Prototyping | Failure Analysis | Mechanical Design | Python | Supplier Management | DFMEA/PFMEA | GD&T | Manufacturing | Test Development

Education

Purdue University – West Lafayette, IN May 2022

Bachelor of Science in Mechanical Engineering – Honors GPA: 3.70/4.00