

# Trevor Ladner

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

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## Professional Experience

**Rivian Automotive** – Irvine, CA and Plymouth, MI

*Interior Materials Engineer – Rolled and Soft Goods*

July 2022-February 2023

- Owned the soft goods commodity handling materials validation, data analysis, design of experiments and material attribute analyses for textiles, coated textiles, and laminates
- Collaborated with application engineers, program management, designers, 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
- Managed prototyping trials of new TPE resins in injection molding process for material viability
- Reduced BOM part costs by \$50 per vehicle on average through implementation of new materials

*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
- Published more than 20 interior test methods to create more robust and concise test methodologies

*Interiors Engineering Intern*

June 2020-August 2020

- Led development of more than 20 testing specifications for vehicle interior applications based on ASTM, ISO, SAE, and FMVSS standards to support robust testing of all interior products
- Worked cross-functionally with design engineers and design release engineers as a part owner, managing development and design of a part in early-stage development

**Magna International – Seating Division** – Novi, MI

*Product Engineering Intern*

May 2019-August 2019

- Supported development of new R&D projects through DFMEA development, testing, and benchmarking to ensure robust designs for new features

**Purdue University Engineering Honors Program** – West Lafayette, IN

*Lead Peer Teaching Assistant*

August 2019-May 2022

- Managed the course-wide deployment of a new operating system version
- Coordinated course project logistics and managed the execution of project demonstrations

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## Leadership Experience

**Purdue University Honors College Racing Crew** – West Lafayette, IN

August 2018-May 2022

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

**Purdue Mechanical Engineering Ambassadors** – West Lafayette, IN

May 2020-May 2022

*Vice President, Student Activities Committee Head, Public Relations Committee Head*

**Tau Beta Sigma – Beta Sigma Chapter** – West Lafayette, IN

March 2021-May 2022

*Webmaster*

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## Skills

Catia V5/6 | CAD | Validation Plans | Rapid Prototyping | Failure Analysis | Control Systems | Mechanical Design Risk Analysis | Materials Development | Supplier Relations | Test Development | Data Analysis | MatLab | Python

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## Education

**Purdue University** – West Lafayette, IN

May 2022

Bachelor of Science in Mechanical Engineering – Honors

GPA: 3.70/4.00

Minors in Engineering and Public Policy, Political Science, & Intellectual Property Law for Engineers

2<sup>nd</sup> Place Recipient of the School of Mechanical Engineering's Innovation Award for Senior Design