

Luca Rosu

Engineer looking to expand my knowledge of the entire product ecosystem.

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EXPERIENCE

Apple, Cupertino — iPhone Top Module EPM

May 2024 - PRESENT

- Oversaw, managed and developed the build plans for iPhone display.
- Managed the demand, planning and implementation of cross-functional design of experiments (DOE's) for Mechanical, Electrical, Optics, and Process teams to ensure successful module bring-up by observing potential problems with implementation of desired product concepts.
- Identified and communicated critical questions and issues with vendors, upper leadership, and engineering teams. Ensuring proper communication across all involved teams.
- Drove module development, scheduled efforts and supported the team through system integration and allocation management.

Tesla, Palo Alto — Hardware Test Engineer

September 2023 - December 2023

- Led the testing initiative for a critical high voltage connector utilized on Cyber Truck.
- Initiated and executed the design, development, and deployment of degradation tests for pivotal components.
- Identified issues during reliability testing and suggested design adjustments to mitigate part failure.
- Engineered PCBs tailored for the evaluation of new technologies being developed for forthcoming products.
- Developed a method of expediting testing of certain DUTs by over 25%

Purdue Electric Racing (SAE), Purdue — President 25', DT Lead 23

August 2021 - PRESENT

- Leading a team of over 110+ students to conceptualize, design, and construct a prototype electric race car
- Implemented new project management strategies to mitigate process and communication inefficiencies.
- Modeled the stresses acting on a prototype and adjusted the design based on changing design constraints.
- Developed final designs while working around Mfg and Assy constraints (DFM)/(DFA).
- Addressed unforeseen challenges during comprehensive system tests and individual components evaluations.

Daimler Truck, Portland OR — Functional Vehicle Test Eng.

May 2023 - August 2023

- Developed data processing scripts to analyze vehicle testing data.
- Supported first ever cross country EV truck trip using public charging
- Used AI to increase route efficiency of next gen electric trucks.
- Participated in comparative testing between next gen EV and diesel truck.

The Looma Project, Durham NC — Engineering Intern

May 2022 - August 2022

- Salvaged a significant rollout for a leading US grocer within 48 hours of starting.
- Engineered components optimized for large scale production and deployment.
- Engaged with manufacturers to obtain part quotations.

EDUCATION

Purdue, West Lafayette
2021 - 2025
BS, Mechanical Engineering

SKILLS

Fusion 360, Solidworks, NX,
KISSsoft, Ansys FEA, Altium
Java, MATLAB, C, Python
PCB Design
Arduino
Computer Design
3D Printing
CNC Machining
Welding
Jira, Confluence, Asana

Volunteering

SAE AWIM Volunteer Lead
Organised and led a middle school STEM initiative to teach 6th graders about engineering principles. Project involved 100+ students and more than 20 volunteers.

LANGUAGES

English, Romanian, French

US/EU Citizen

