

JESSICA WALLACE

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Bachelor of Science, Mechanical Engineering
Minor, Media Design

Fall 2018 - Spring 2022

WORK EXPERIENCE

Vehicle Design Integration Intern — Tesla Motors Inc.

Jan. 2021 - Aug. 2021

- Lead teams of 80+ engineers to integrate the Cybertruck overheads package, using cross-functional knowledge of electronics, body-in-white design requirements, and vehicle design.
- Designed 5 fixtures for a prototype truck, optimized for versatility for future vehicles as well as locating sub-assemblies together. Utilized first principles of mechanics to create a rotary fixture for a vehicle's instrument panel, minimizing torsion as well as deflection.

Robotics Intern [Confidential] — X, formerly Google[X]

May 2019 - August 2019

- Spearheaded multiple robotics research projects involving design and fabrication.
- Created successful prototypes to improve a moonshot project that uses breakthrough technologies to solve the world's most challenging problems.

Robotics Research Assistant — CMU Robomechanics Lab

October 2018 - May 2022

- Prototyped improved dynamic running and climbing capabilities in a hexapod robot through systematic material analysis, strain energy methods for a linear-elastic system, and finite element analysis.

TECHNICAL PROJECTS AND LEADERSHIP

System Lead, Accumulator Container — Formula SAE EV Team

Fall 2021 - Spring 2022

- Developed accumulator container with considerations to battery cell cooling, surrounding vehicle geometry, and FSAE rules. Utilized sheet metal design skills and manufacturing process knowledge to ensure dimensional accuracy.

Head Orientation Counselor — Carnegie Mellon University

Nov. 2020 - Nov. 2021

- Served as a leader and role model for the student body. Responsible for developing the first in-person program for 2,000+ students in 1.5 years, and revitalizing campus culture and traditions by creating an inclusive and welcoming environment.

System Lead, Two Force Members — Formula SAE EV Team

Fall 2018 - Spring 2019

- Designed and manufactured 24 suspension links connecting major components in a Formula SAE race car.
- Integrated the system into the vehicle suspension and performed stress analysis calculations and Matlab simulations to optimize suspension link performance.

SKILLS

Solidworks, CATIA V5, CATIA V6(3D Experience) Python, JavaScript, HTML, Metal Shop Proficiency, and Wood Shop Proficiency.