

Wade Lacey

Design Portfolio: <https://wadelacey.wordpress.com/>
Cell: 518-360-4372 Email: wade.lacey@outlook.com

EDUCATION

Carnegie Mellon University Pittsburgh, PA
Bachelor's and Master's of Science in Mechanical Engineering, May 2020
GPA: 4.0 - Dean's List, Fall 2018, Spring 2019

RELEVANT EXPERIENCE

Daimler Trucks North America Portland, OR
Design and Optimization Engineering Intern, Summer 2019

- Utilized Simcenter 3D and HEEDS to explore and determine a design optimization process for the company.
- Created and ran finite element models and dynamic simulations of truck components using test track data.

Vitro Automotive Glass (Pittsburgh Glass Works) Pittsburgh, PA
Process/R&D Engineering Intern, Summer 2018

- Assisted with the start and ramp up of a new "Value Add" manufacturing plant.
- Created an audit to maintain smooth process on the new lines as well as organized a timing plan, material tracking list, and wrote specifications for a new assembly line.
- Investigated future technologies to be used in automotive glass in autonomous and electric vehicles in the R&D group.

PROJECTS

Item Storage and Retrieval System Advanced Mechanical Design, Fall 2019

- Fabricated a functional prototype which can store and retrieve an item efficiently within a shelving structure using a custom gantry system, a gripper, and user interface.
- Awarded "Best Overall" at the Carnegie Mellon Fall 2019 Mechanical Engineering Expo.

Janney Coupler Re-design Design of Machine Elements, Spring 2019

- Conceptualized and prototyped a novel re-design of an over 100-year-old train coupler.
- Worked as a team member to move through the iterative process of brainstorming, conceptual work, as well as prototype and final design.

Automated Weightlifting Spotting Design II, Fall 2018

- Fully designed and prototyped safety and spotting system for weightlifting exercises the can support over 600lbs.
- Awarded "Most Innovative" at the Carnegie Mellon Fall 2018 Mechanical Engineering Expo.

RELEVANT COURSES

Advanced Mechanical Design	Linear System Controls
Design of Machine Elements	Dynamic Systems & Controls
Engineering Design II	Robotics for Creative Practice
Intro to CAD and CAE tools	Material Selection
Engineering Vibrations	Gadgetry

SKILLS

Software: Microsoft Office, Microsoft Project, AutoCAD, Python, SolidWorks, MatLab, Simulink, NX, Sincenter 3D, HEEDS, Fusion 360, Zoom

Machinery: Mill, Lathe, Drill Press, 3D Printer, MIG Welding, Laser cutter, CNC Machine

ACTIVITIES & LEADERSHIP

Teaching Assistant, 24-441 Mechanical Engineering Design II (Senior Capstone), Fall 2019

Teaching Assistant, 24-371 Design of Machine Elements, Spring 2020

Women's Varsity Track and Field Team, Carnegie Mellon University, Spring 2016 – Spring 2020

Women's Varsity Cross Country Team, Carnegie Mellon University, Fall 2015 – Fall 2019

University Athletic Association All Academic Recognition, Fall 2016, Fall 2019, Spring 2020

USTFCCA All-Academic Fall 2019 and USTFCCA All-Region Spring 2020

Participant in the NCAA National Championship meet, Fall 2018 and Fall 2019