

WESTON A. WHITE

(650) 683-0991 | westonawhite@gmail.com

[linkedin.com/in/westonawhite/](https://www.linkedin.com/in/westonawhite/) | westonawhite7.wixsite.com/westonawhite

EDUCATION

University of California, Berkeley - GPA 3.756/4.0

2023 – 2024

Master of Science, Mechanical Engineering

2019 – 2023

Bachelor of Science, Mechanical Engineering

EXPERIENCE

Tesla

- *Mechanical Engineering Design Intern* Summer, 2023
As part of the drive systems team designed multiple assembly tools for prototype powertrain. Explored different manufacturing methods for existing design, worked with suppliers, and performed cost analysis to redesign a mass-produced part and reduce cost by over 25%.
- *Mechanical Engineering Design Intern* Jan-July, 2022
designed test rig to test critical drivetrain components for Cybertruck. Managed manufacturing, procurement and assembly of over 40 parts. Visualized test results to guide future design. Developed new test case to qualify new vendors to diversify supply sourcing.

Formula Electric at Berkeley

2019 – Present

Formula SAE Electric is an international engineering design competition where university students design and construct a Formula-style electric race car that is judged for acceleration, efficiency, endurance and other aspects.

- *Powertrain Lead* – Led 13 students in the design and manufacturing of team's first ever running powertrain. Subsystem responsibilities included lap simulation, cooling, dyno testing and transmission design.
- *CAD Officer* – Led FEB's CAD team, overseeing team wide CAD integration. Reviewed design, drawings, and FEAs of all critical parts, and created renders for marketing.
- *Powertrain Engineer* – Developed motor calculator, performed battery power analysis, conducted competitive research, developed competition strategy, and designed driveline components for the 2021 competition.

Eta Compute

Summer, 2021

Eta Compute is a software startup creating vision sensors using AI for a diverse range of IOT applications.

- *Mechanical Engineering Intern* – Performed configuration study to determine device field of view and mounting requirements. Designed and manufactured prototypes to determine device style and functionality. Prototypes will be used in offices in product's inaugural Fall launch.

Bright Machines

Summer, 2019

Bright Machines is a software and robotics company that combines software, machine learning, computer vision and adaptive robotics to automate manufacturing process. As a software intern, Investigated programs for a CAD translator service, created renders for investor pitches and researched robotics control systems with AWS.

Team 254, Robotics Team

2015 – 2019

Team 254 is a FIRST Robotics Hall of Fame Team that won the World Championship in 2011, 2014, 2017, and 2018. It holds the most regional and district titles in FIRST which is comprised of 6,700 teams from 60 countries.

- *Technical Director* – Led design and build process for 2019 World Championship robot. 2018 – 2019
- *Dean's List Semifinalist* – Recognized by FIRST as an outstanding student leader. 2018

SKILLS

- SolidWorks (CSWA certified); CATIA; Blender; Java; Python; MATLAB; Microsoft Excel; Adobe Photoshop; Adobe Illustrator; Adobe InDesign.
- Static FEA analysis; Fatigue analysis; GD&T; Sheet Metal Design; Design for manufacturing; Rapid Prototyping.