

# David Oke

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Portfolio: [www.davidoke.com](http://www.davidoke.com) Permanent: San Francisco, CA

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## EDUCATION

**Carnegie Mellon University**, Pittsburgh, PA  
Master of Science in Mechanical Engineering, May 2021  
Bachelor of Science in Mechanical Engineering, May 2020  
Overall GPA: 3.6/4.0

## RELEVANT EXPERIENCE

**Zipline International, Mechanical Engineer, South San Francisco, CA** **2021-2022**

- Mechanical Design Owner and Program Manager for Drone Landing system
- Owned CAD design in NX for key system components such as motors, gearboxes, truss structures, high-powered electrical systems, carbon fiber composites, and winches
- Lead multiple cross functional projects with supply chain, manufacturing, operations, and finance to reach annual production and system performance targets
- Successfully lead outsourcing project with international vendors to mass-produce system with 1000+ components
- Designed, tested, validated, and pushed several safety critical designs from prototypes to production
- Root caused and resolved in-field hardware failures with novel solutions within first 24 hours to ensure distribution sites around the world operated at the set 99.9% reliability target
- Created system models for several key electromechanical systems to analyze and mitigate different failure modes

**SpaceX, Associate Vehicle Engineer, Boca Chica, TX** **Summer 2020**

- Worked on Starship, a fully reusable rocket designed to carry humans to orbit, the Moon, and Mars
- [Helped successfully build and fly first successful vehicle, SN5](#)
- Lead Build Engineer for landing legs installation & deployment
- Responsible for the build operations of several propulsion and avionics systems
- Coordinate closely with design engineers to optimize designs for manufacturing

**The Boeing Company, Engineering Intern, Everett, WA** **Summer 2019**

- Worked within the Autoflight control laws team to improve several flight controls analysis tools
- Created a knowledge tool that documents Engine Build-Up process for 777 aircraft

## PROJECTS & LEADERSHIP

**[Carnegie Mellon Solar Racing](#), President & Propulsion Team Lead** **2016 - 2020**

- Lead a team of 30 engineers in designing and building a 18ft solar-powered boat to race and compete nationally
- Manage an annual budget of \$20,000 and placed 3<sup>rd</sup> out of 17 teams in 2017 Solar Splash Competition
- Lead a team of 8 in building a sun-tracking system to increase charging efficiency of solar panels
- Redesigned gearbox and lower unit of outboard motor using SolidWorks CAD & simulation

**[Automated French Press](#), Electro-Mechanical Systems & Design** **Fall 2019**

- Built a novel coffee-making machine that won Best Prototype at the Design Expo (team of 4)
- Developed electrical system and code architecture using Arduino microcontroller, relays, and sensors
- Designed & built a linear actuator to automatically press the coffee using stepper motor and driver

## SKILLS

**Software:** MATLAB, Arduino, Siemens NX, SolidWorks, MasterCam, Microsoft Office, Simulink

**Programming Languages:** Python, C, C++, HTML, CSS, JavaScript

**Machining:** CNC, Lathe, Mill, Laser cutting, 3-D Printing, Drill Press, Band Saw

## ACTIVITIES & HONORS

College of Engineering Dean's List (GPA 3.75 and above), Spring 2018, Spring 2019, Spring 2020

Ford College Network 'Blue Oval Vehicle Team Leadership' Scholarship, 2018

Boeing Engineering Scholarship, 2019