

Aron W. Walker

Email: walkearo@oregonstate.edu | Cell: 503-858-7563 | Website: aronwalker.net

EDUCATION

Technical Skills

Oregon State University	Corvallis, OR	Solidworks	Fusion 360	MS Project
BS in Mechanical Engineering	Senior	Matlab	TIG Welding	Composites
Business and Entrepreneurship Minor		Soldering	CNC	Arduino

ENGINEERING PROJECTS

Shell Eco Marathon 2016-17

- Worked in a team to design the steering and braking system for OSU's competition car
- Designed and manufactured jigs for welding the car's chassis
- Designed processes to minimize manufacturing problems and increase efficiency
- Won 2nd Place twice in North and South America with over 8,600 MPGe

Shell Eco Marathon 2018

- Team Manager and Vehicle Design Lead
- Redesigned braking system, steering, electric drivetrain, and wheel to reduce losses
- Placed 2nd in all of North and South America

Dental Composites Research

- Used Solidworks to model complex dental access openings and their internal geometry
- Analyzed models to find the bond strength of composites used to fill access openings
- Drew conclusions from the data obtained to be used in a research paper

Phas'd Temperature Regulating Bottle

- Designed a temperature regulating bottle that cools your hot beverage down to the ideal drinking temperature and hold it at that temperature for 4-6 hours
- Currently in the process of researching the feasibility of patenting the technology

Other Projects: OSU's Pumpkin Chunkin' catapult & Automated Coffee Cold Brewer

ACTIVITIES

American Society of Mechanical Engineers Club – Corvallis, OR

Vice President

March 2016 – February 2017

- In charge of club events and activities, making improvements to annual events
- Restructuring club and member interactions to increase member involvement
- Working on setting and achieving long term club goals

President

February 2017 – February 2018

- In charge of club meetings, events, projects, and long term success
- Working with OSU and industry partners to maintain and increase support of the club
- Doubled club membership to over 120 members

Shell Hack-a-Truck Design Challenge 2017 – Google Headquarters, Mountain View, CA

- Worked with students from other colleges to design future mobile food trucks
- Won an award for safest design with the best user experience

Internship Experience

US Army Corps of Engineers

June 2018 – September 2018

- Worked with a structural engineer to design a safety structure to mitigate fall hazards and increase the ease access to critical water regulating equipment on a dam
- Worked with electrical engineers to solve a reliability issue with a spillway gate on a dam
- Completed contract modifications including: costing, price negotiation, & quality assurance