

# Aron W. Walker

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## EDUCATION

## Technical Skills

<b>Oregon State University</b>	Corvallis, OR	Solidworks	Fusion 360	ANSYS
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 2<sup>nd</sup> 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 2<sup>nd</sup> 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

- Ran club events and activities then restructured them for greater success
- Restructured club and member interactions to increase member involvement
- Developed long term club goals and strategies to achieve these goals

President

February 2017 – February 2018

- Ran weekly club meetings, events, and projects including the Shell Eco Marathon Team
- Worked with OSU and industry sponsors to quadruple the financial support of the club
- Doubled the 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