

# Aron W. Walker

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## EDUCATION

## Technical Skills

<b>Oregon State University</b>	Corvallis, OR	Solidworks	Fusion 360	MS Project
BS in Mechanical Engineering	Senior	Matlab	TIG Welding	Carbon Fiber
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
- Helped design and manufacture 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

### 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

### Shell Eco Marathon 2018

- Team Manager and Vehicle Design Lead
- Redesigned braking system, steering, and wheel mounts to reduce losses

### 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 patenting the technology

Other Projects: Prototype Hybrid Vehicle, OSU's Pumpkin Chunkin' catapult, Automated 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 to maintain and increase support
- 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

## Relevant Work Experience

### Tualatin Endodontics

2013-2015

#### IT & Digital Record Management

- Optimized paper to digital record conversion process to increase efficiency over 3 times
- Troubleshooted then solved hardware and software issues on computer systems
- Completed 12.5 years of records work in 3 months, at existing completion rates