

# Alan Ruston Coe

## Engineer

My goal is to develop new products which will influence the future of our society. Through my real-world experiences, I have been exposed to self-directed, professional atmospheres and my engineering projects have shown my abilities to use current technologies with the focus on product development. In a position, I am looking for a company which pushes me each and every day and strives to find new ways to utilize my skill set. Further information can be found on [alancoe33.wixsite.com/info](http://alancoe33.wixsite.com/info)

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## EDUCATION

### Washington State University B/S Bioengineering (Mathematics Minor)

08/2015 – 05/2019

Cum Laude

#### Course Subjects

- Innovation in Design
- Fundamentals of Neuroscience
- Physics series
- Bio-Instrumentation

## ENGINEERING PROJECTS

### BioMech (Capstone Team) (08/2018 – 05/2019)

- As the creator of our Capstone team, I served as the COO and I was responsible for all the mechanical engineering decisions. I also ensured that other members of the team, which were from outside the engineering department, could communicate effectively and produce cohesive results.

### GripGlove (08/2018 – 05/2019)

- Invented, fabricated, and modified a device which uses the external signalling of functioning muscular activation to enable and enhance the grip strength of the user via an exoskeleton glove which the user can wear.

### Quality Manual (08/2018 – 12/2018)

- Led our Capstone team to produce a 100+ page Quality Manual which mapped out the production, finances, regulatory considerations and company ideals.

### Posture Analyzing Seat Cushion (2017)

- Led a team of three bioengineers to design a seat attachment which would analyze the posture of the user in real time and advise the user how to adjust to deter future back complications via a phone application. The seat used a multitude of embedded pressure sensors to evaluate high pressure points.

### PID Controller Applications (2015)

- Coded, designed and assembled an autonomous race car which utilized front facing light sensors to traverse a race track and compete against other cars.
- Designed and built a custom fish tank impellar which worked in conjunction with various sensors and devices to maintain a set temperature and saline level. These devices were turned on and off via coding which I wrote in the python language.

### Prosthetic Leg (2015)

- Led a team of three engineers to design, build and test a below the knee prosthetic which was comprised of reclaimed materials. My team placed 1st among 126 other students in a race which tested both speed and durability.

## SKILLS

CAD (SOLIDWORKS)

C/C++ Coding

Computer Skills

## WORK EXPERIENCE

### Custom Home Builder Dalgarno Construction

01/2013 – Present

Eastsound, WA

Worked from 2013 to 2015 full time, 2018 summer and presently.

#### Achievements/Tasks

- As a Custom home builder, I am responsible for analyzing both engineering and architectural designs and bringing them to fruition. The tasks involved with this are but not limited to, foundation work, framing, flooring, roofing interior and exterior finish work. To do so I had to learn how to be self-directed, adaptable and a quick learner.

### Chief Facility Repairman Apartment Rentals Inc.

05/2017 – 08/2017

Pullman, WA

#### Achievements/Tasks

- As the Chief Facility Repairman, I was responsible for analyzing and coming up with a plan of action for any problem a tenant would bring to the attention of the landlord. I was also in charge of the purchasing of any materials needed to complete the task. To do this, I had to take on a large amount of responsibility, adapt to a changing work environment and solve complex real-world problems.

### Commercial Fisherman Troller Point Fisheries

06/2016 – 08/2016

Sitka, AK

#### Achievements/Tasks

- As a Commercial Fisherman, it was my responsibility to fish in thousands of pounds of fish from king salmon to rockfish. To find the fish I had to bear the Alaskan seas from Icy Bay to the Prince of Wales Islands and work for weeks out on the water before we came into harbor. To perform the tasks I had to learn how to persevere in the toughest of conditions and develop a strong work ethic.

## ACHIEVEMENTS

### Cum Laude Honors (08/2015 – 05/2019)

Bachelor of science degree with a GPA between a 3.50 - 3.74

### WSU Business Plan Competition (Honorable Mention) (05/2019)

Received an honorable mention competing against 150 other students for the work done by our Capstone team.

### UW Holloman Health Innovation Challenge (02/2019)

Accepted to compete against 22 teams out of the 47 teams which applied.