

# SPENCER KRESGE

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## Introduction

I am a recent graduate in Electrical and Computer Engineering looking to gain experience in industry while I pursue my Master's degree in Computer Science.

## Work History

**Hardware Design Intern**, 06/2015 to 09/2015

**Tektronix** – Beaverton, OR

I designed hardware and embedded drivers for a mixed signal application in the Video Product Group. I got to work with an inter-disciplinary product development team. Working within the boundaries of quality, safety, and marketing processes taught me a lot about the business side of engineering. My work at Tektronix gave me insight into analog and digital circuits in video signal processing, and the business aspects of a product development team.

**Technical Intern**, 06/2014 to 09/2014

**Intel** – Hillsboro, OR

I developed a smart bicycle helmet, with GPS and impact detection systems using the Intel Edison. The helmet has wireless capabilities and predictive concussion modeling for contacting emergency services if the user is unconscious. Specifically, I designed custom PCB's for the helmet with unique digital and analog systems. I also helped develop firmware for the helmet in C and Linux/Python. This project was selected for the 2014 Intel Developers Forum.

<http://www.intelfreepress.com/news/smart-bike-helmet-smartphone-app/8533/>

**Undergraduate Teaching Assistant / Peer Leader**, 09/2013 to 04/2015

**Oregon State University** – Corvallis, OR

Lead TA for two freshman/sophomore electronics lab sections. Student representative for the school of Electrical Engineering and Computer Science, interacting with prospective students, industry representatives, and incoming faculty.

**Customer Service Representative**, 06/2013 to 09/2013

**Stream Global Services** – Wilsonville, OR

Worked on a fortune 500 company technical support contract as a customer service representative. Received extensive product and sales process training. Earned exceptional customer service ratings.

**Design Intern**, 09/2014 to 06/2015

**Oregon State University** – Corvallis, OR

I worked on a team dedicated to investigating and developing technology surrounding the Internet Of Things. The project involved a wireless networking scheme and packet structure that interacts with a database to better connect technology with the world around us.

## Education

**Master of Science**: 2018, Computer Science

**Oregon State University** - Corvallis, OR

**Bachelor of Science**: 2016, Electrical and Computer Engineering (Magna Cum Laude)

**Oregon State University** - Corvallis, OR

## Skills

- Programming: C, C++, Matlab, Python, Linux, Android, Verilog (personal project experience)
- PCB Design: EAGLE, PADS, Cadence
- Extensive prototyping with both hardware and software