

JESSICA PETERSON

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PURPOSE

I am starting graduate school at Oregon State University in the fall of 2020. I want experience that will give me greater understanding of semiconductor processing in industry.

EDUCATION

Oregon State University

September 2016 - June 2020

GPA: 3.9

Bachelor of Science in Electrical and Computer Engineering

WORK EXPERIENCE

Oregon State School of Electrical Engineering and Computer Science

January 2020 - Present

Research Assistant

Read and summarized recent advances in electrical materials, and assisted in fabrication and testing of electronic devices, including internal photo-emission measurements. Used atomic layer deposition to deposit thin films.

Cognex Corporation

Electrical Engineering Intern

April - September 2019

Worked in the Hardware Engineering team. Tested products for EFT and ESD certification. Designed schematics in MentorGraphics PADS. Wrote firmware to test the functionality of the cameras.

OSU Advantage Accelerator

Intern

January 2018 - January 2019

Performed prior art searches and market overviews to enable others to decide if a patent should be filed.

EXTRA-CURRICULAR

USLI

September 2019 - Present

Subteam Lead

Organized and coordinated the Electrical Engineering project team using project management tools such as Gantt charts and Agile scheduling software Trello. Presented designs to NASA.

Oregon State Math Department

May 2018 - December 2019

Research Assistant

Wrote mathematical models in MATLAB to model household income changes over time and the effectiveness of different government programs to decrease poverty.

PROJECTS

Avionics for University Student Launch Initiative Team

November 2017 - Present

Created a system to track the GPS location, altitude, and acceleration of the Launch vehicle while in flight. Data was then transmitted over RF to a ground station which visually displayed and recorded the data.

Rover Electrical Design for University Student Launch Initiative Team

Designed a rover to survive a launch and be controlled via remote control. It collected some environmental data and transmitted this back to a stationary hub which directed the rover.

TECHNICAL STRENGTHS

Modeling and Analysis

spice, MATLAB, Silvaco Atlas, KiCad, Mentor Graphics PADS

Programming Languages

C, C++, Python, Latex, Git