

# Nicole Dean

## ELECTRICAL & COMPUTER ENGINEERING INTERN

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### EDUCATION

#### **Oregon State University, Corvallis, OR**

**BS – Electrical & Computer Engineering**

June 2018 – Present

Upper-division labs, projects and course series.

#### **Clackamas College, Oregon City, OR**

**Electrical & Computer Engineering**

September 2015 – June 2018

Prerequisite courses including various lab sections.

### TECHNICAL PROFICIENCY

C/C++	Digital Logic	Data Loggers
Matlab	Circuit Analysis	Oscilloscope
LTSpice	AVR Assembly	Arduino
Excel	Fusion 360	AutoCAD

### PROJECTS

**Circuits:** Team built a mixer circuit that included high, low, and band pass filters to vary treble and bass.

**Junior Design:** Built a servo PID loop, power supply, solar panel characterization, and two-axis robotic arm.

**Engr Economics:** Final project analyzing hypothetical company's potential new location given financial data.

**Final Intern Project:** Built an AC/DC test apparatus for use in ZincFive manufacturing facility to lower MTTR.

### WORK EXPERIENCE

#### **Energy Analyst, OSU's Energy Efficiency Center - Dept. of Energy, Corvallis, OR**

Mar 2019 – Present

On-site energy and operational efficiency analysis for Northwest companies through the Department of Energy's Industrial Assessment Center (IAC) program. Project management of energy efficiency audit teams. Includes estimating, drafting, reviewing, and editing efficiency reports.

#### **TA & Lab Instructor, OSU Electrical & Comp. Engr. Department, Corvallis, OR**

Sept 2019 – Present

Quarterly course appointments range from instruction of introductory and electronics labs to weekly auxiliary help sessions. Responsibilities included lab troubleshooting, lab prep, grading, and office hours.

#### **Engineering Intern, ZincFive, Tualatin, OR**

Jan - Feb 2018, May – July 2018

Nickel-Zinc battery internship creating BOMs, testing parts and final products, culminating in a final internship project designing and building an AC/DC test apparatus to target testing needs and speed up repair process.

#### **Work Study: Plant Engr Assistant, Clackamas Community College, Oregon City, OR**

Jan 2018 – Feb 2018

Work-study in college's engineering department. Engine & electrical monitoring, building maintenance & repair.

#### **Engineering Technician Intern, Heart Transverter LLC, Alajuela, Costa Rica**

Mar – May 2015

Renewable-energy internship in Spanish-speaking factory, troubleshooting repairs for malfunctioning or returned converter devices. Worked each station in manufacturing over the course of the internship.

### ADDITIONAL EXPERIENCE

- *Inventors Enterprise 30 hour Design Weekend, CCC STEM Club, CCC STEM Tutor*
- *Aerial Silks & Circus Sports, YMCA Camp Counselor, Raw Food Chef & Cleanse Assistant, Bartender*
- *Volunteer establishing infrastructure for Permaculture Institute Finca Tierra in Costa Rica, Spanish-fluency*
- *Well-traveled, foodie, history-buff, avid reader, likes cooking & dance classes. Backpacked India solo.*
- *English as a Second Language (TEFL) and Iyengar-style yoga teacher, have worked with kids*