

# Bradley L. Davis

## Electrical Engineering Student

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### Relevant Experience

#### Engineer @ Schweitzer Engineering Laboratories

Internship // May 2018 - Present // Pullman, WA

- ✦ Developed a Gigabit ethernet reliability and throughput testing software
- ✦ Fabricated a testing tool that identifies manufacturing defects saving money and life
- ✦ Aid board bring up for a Intel based rugged computer
- ✦ Utilise oscilloscopes, digital multimeters, and Ethernet sniffers to functionally test hardware
- ✦ Participate in a group with an agile methodology using JIRA

#### CTO @ Cougs in Space - WSU Satellite Club

Club // August 2017 - Present // Pullman, WA

- ✦ Advise and manage all projects related to the satellite's development
- ✦ Create circuit design, layout traces, and functionally test 8 unique PCBs with predominantly surface-mount technology
- ✦ Construct a Low Earth Orbit communication system with software defined radios
- ✦ Write software for embedded microcontrollers
- ✦ Prototype mechanical solutions predominantly for communication systems

#### Lead Technical Counselor @ Tahoma Robotics Camp

June 2014 - June 2018 // Maple Valley, WA

- ✦ Formulated unique games for each year by:
  - 🕒 Writing comprehensive competition and game rules
  - 🕒 Animating an animation explaining the game
  - 🕒 Programming real-time scoring software
  - 🕒 Executing a competition live-stream with professional audio/visual equipment
- ✦ Aided campers with designing, building, wiring, and programming of VEX robots

#### Design Lead @ Tahoma Robotics Club - FRC 2046

Club // September 2012 - May 2017 // Maple Valley, WA

- ✦ Designed and created CAD for 90% of the robot that won Autodesk Robot CAD Competition at PNW District Championship in 2015, 2016, and 2017
- ✦ Led design team to win General Motors Industrial Design Award in 2015, 2016, and 2017
- ✦ Taught advanced Autodesk Inventor classes at a local robotics workshop, 15 FRC teams in attendance
- ✦ Organized 40 designers, fabricators, assemblers, electricians, and programmers to consistently create a successful robot; placing 5th out of 5,000 teams worldwide in 2017

#### CAD Drafter @ A 1968 Mustang Project

Freelance Job // December 2015 // Maple Valley, WA

- ✦ Drafted CAD from wood mock-up for a 1968 Mustang's rear suspension to a 1976 Jaguar X12 independent rear suspension
- ✦ Ensured mechanical requirements were met for harsh autocross races
- ✦ Produced technical drawings for machinists and fabricators

### Skills

#### Excellent

|                   |                 |
|-------------------|-----------------|
| Autodesk EAGLE    | Microsoft Excel |
| Digital Design    | Microsoft Word  |
| Autodesk Inventor | C/C++           |
| 3D Design         | Java            |
| Autodesk 3ds Max  | GIMP            |

#### Skilled

|               |                    |
|---------------|--------------------|
| Analog Design | Python             |
| LTSpice       | Regex              |
| HTML/CSS      | Sheet Metal Design |
| Javascript    | CNC Machines       |
| Git           | Graphic Design     |

#### Familiar

|           |              |
|-----------|--------------|
| RF Design | CMake        |
| Verilog   | Autodesk HSM |
|           | JIRA         |

### Education

#### Washington State University

Fall 2017 - Fall 2021

Voiland College of Engineering and Architecture, Honors College  
Bachelors of Science in Electrical Engineering

Minors in Math and Physics

GPA: 3.81

President's Honor Roll Fall 2017 - Spring 2020

#### Tahoma Senior High School

Fall 2014 - Spring 2017

Graduated with Honors

### Projects

#### Personal and Professional Website

Spring 2019

First published website serving my resume, portfolio, and life experiences  
Built with HTML, CSS, and JS

#### C++ Project Template

Spring 2020

Template git repository for medium to large projects utilizing CMake

### Interests

|                  |                  |
|------------------|------------------|
| Learning         | Table top games  |
| Space            | Cooking & baking |
| Astrophotography | Amateur radio    |
| Movies           | Traveling        |