

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 for predominantly 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
Autodesk Inventor
Autodesk 3ds Max
Microsoft Excel

Microsoft Word
C/C++
Java
GIMP

Skilled

HTML
CSS
Javascript
Git

CNC Machines
Troubleshooting
SMT Soldering
LTSpice

Familiar

Verilog
Unity/C#
Autodesk HSM

Adobe Illustrator
DaVinci Resolve

Education

Washington State University

Fall 2017 - Spring 2021

Voiland College of Engineering and Architecture, Honors College

Bachelors of Science in Electrical Engineering

Minors in Math and Physics

GPA: 3.84

President's Honor Roll Fall 2017 - Fall 2018

Tahoma Senior High School

Fall 2014 - Spring 2017

Graduated with Honors

Projects

Personal and Professional Website

Spring 2018 - Spring 2019

First published website serving my resume, portfolio, and life experiences

Built with HTML, CSS, and JS

Interests

Learning
Space
Astrophotography
Movies

Table top games
Cooking & baking
Amateur radio
Traveling