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 development 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
- Prototyped 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 robots 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 - Expected 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

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

Stonks: Algorithmic Trading

Summer 2020 - *Work in Progress*

Automated and procedural execution of stock trading

Built with Python

Interests

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