

# Daniel Heppner

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## CONTACT

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## INTERESTS

I am looking for a position that can utilize my expertise with technology. I have been fascinated with all kinds of systems and technology since I was a child, and it has developed into a passion for computers and electronics. As a result, I take on all kinds of personal projects and I am self-driven to learn and make cool stuff! I am also eager to learn new skills and meet new people. In my spare time I enjoy spending time outdoors: biking, surfing, hiking, and travel, and socializing.

- Software programming for embedded microcontrollers (including IoT), websites, and desktop software.
- Electrical engineering; building circuits and other electronics.
- System administration; managing computer systems
- General IT work

## WORK EXPERIENCE

### Self

**December 2015 — Present**

Freelance Web Development

I develop websites and perform general website maintenance for clients that I find through online freelancing websites. I am also the primary web developer at WayJames Marketing. <http://wayjames.com/> 828-545-3714.

### Accomplishments

- Built web apps using a combination of Javascript, Node.js, HTML, and CSS.
- Worked inside WordPress to make custom websites, including modifying themes to fit a design specification.
- Worked on the server side to move hosting providers and transfer data around, including DNS and Linux administration.

### Tame Your Technology

**2009 — Present**

Owner, Tech Support

I've been doing "tech support" since I was 11, but in the last couple of years this has become one of my primary sources of income. I have established myself as a sole proprietorship, my website is available at <https://tameyour.tech/>

### Sound in Motion

**March 2016 — Present**

DJ Assistant

Assist DJs in setting up and tearing down DJ equipment, lights, wires, computers, etc. I've also been in charge of running photo booths and doing general office work in Excel. At most I work at one event per week.

Supervisor: Adrian Cavlan 831 427 0700  
<https://www.sim.events/>

### Aptos High Robotics

**2012 — 2015**

Software Programmer

Three years working on the Robotics Team at Aptos High, coding the software for the underwater robot. Our team won 1st place at the international MATE robotics competition held in June 2013 in Federal Way, Washington. In 2014 our team won 1st place at the regional competition and went to the international event held in Alpena, Michigan. Team Mentor: Scott Randolph 831-722-3630.

### **Accomplishments**

- Built software for computer in C# and Arduino's C++.
- Built custom circuit boards to drive the motors (H-Bridge drivers).
- My team won 1st place internationally in 2013 against teams from around the world.
- My team won 1st place regionally in 2014.

## **PROJECTS**

### **Door Project**

While I lived in the dorms I decided to put an LED strip around our door frame to make for some cool effects. The project grew from there to include a motion detector, touch sensors, DIY Amazon Alexa, an LCD display, and even control of the lights in our room.

### **Door Project - LinuxFest Presentation**

The door project got the attention of one of the computer science professors at my school, who asked me to give a talk at an open source software convention called LinuxFest. It can be seen here: <https://youtu.be/aW1FN6HrxB8>

### **Custom PCB Design**

Controlling RGB LED strips with an Arduino requires some additional circuitry. I taught myself how to use PCB design software - something that we don't learn in the engineering program until our senior year - to design a custom 1 sq. in board that contains all the circuitry needed to handle the LED strip.

### **Apartment Automation**

More recently I've moved into an apartment, and with that I've had a lot more to automate. It's a continuous work in progress, but with the help of one of my roommates who can work in CAD software, we build an automated door lock. I'm currently working on writing the code and wiring up an RFID scanner to allow access to the apartment via key fobs.

## **EDUCATION**

### **Electrical Engineering Studies**

**2016 — 2020**

Western Washington University

- Assortment of engineering classes, including digital systems and circuit analysis classes.
  - Math classes: Calculus 1 through multivariable calculus, differential equations, linear algebra, limits and infinite series.
  - Physics 1 through 3.
  - Chemistry
- I have a 3.51 GPA.

## **REFERENCES**

- Doug Erickson - SC New Tech Meetup Founder: (408) 439-0012
- Pete Burnight - Robotics Team Mentor: (831) 423-9584
- Justin James - WayJames Marketing: (828) 545-3714