Brian Bove

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2420 NW Rolling Green Dr #29 • Corvallis • Oregon

US Citizen

Objective

Highly motivated, independent, and team-oriented individual looking to obtain a fulfilling career in the field of electrical and computer engineering. Available immediately.

Education

Oregon State University   CORVALLIS, OREGON
  B.S. Electrical and Computer Engineering   *Graduated 2016*
  - **GPA:** 3.5/4.0
  - **Relevant Coursework:** Analog Circuit Design and Analysis, Hardware Description Languages, Microelectronics, Computer Science (C/C++, Python), Digital Electronics and Design, Analog Signal Analysis, Power Electronics, Control Systems, Motor Drive and Control

University at Buffalo   BUFFALO, NEW YORK
  B.S. Physics   *Graduated 2010*
  - **GPA:** 3.2/4.0
  - **Minor:** French

Relevant Experience

UFM Systems LLC   CORVALLIS, OREGON
  Embedded Systems Developer, Self-Employed   *2013 – present*
  - Develop embedded hardware and software based on client needs
  - Create and provide schematics and support documentation
  - Design and lay out printed circuit boards
  - Implement custom control and automation solutions
  - Handle contracts, estimates, and financial transactions associated with running the business

Oregon State University   CORVALLIS, OREGON
  Teaching Assistant   *2015 – 2016*
  - Taught electrical fundamentals to engineering students
  - Guided students through lab exercises and equipment usage

Epik Electronics LLC   BUFFALO, NEW YORK
  Web Developer   *2010 – 2012*
  - Developed and maintained an e-commerce exchange for consumer electronics
  - Managed web servers, database servers
  - Tasked with discovering and resolving any bugs in the back-end of the e-commerce applications
  - Automated the retrieval, organization, and maintenance of current inventory and pricing from various distributors

Technical Skills

Operating Systems (general purpose): Linux, Windows, MacOSX, BSD

Operating Systems (embedded): FreeRTOS, ChibiOS, RTLinux

Languages: C (system, application), C++, Python, PHP, Verilog, shell scripting (bash, tcsh, sh), SQL, Javascript

Software: KiCAD, Eagle, Simulink, MATLAB, ngspice, LTSpice, Lattice Diamond, Apache, nginx, git, SVN

Architectures: x86, AVR, STM8, ARM (STM32, AVR32)

Projects/Hobbies

Brushless Motor Controller: Designed for use in Oregon State University's energy-efficient electric vehicle entered in the Shell-Eco Marathon. Drives a 500W 3-phase brushless DC motor using vector control. The vehicle achieved a rating of 267 miles per kWh in the 2016 competition and 290 miles per kWh in 2017. (power electronics, PCB layout, embedded C)

Induction Bike Light: A rear light for my bicycle powered by recycled hard drive magnets attached to the spokes and a coil attached to the bike frame. A supercapacitor was integrated into the design so that the light can stay on for several minutes after pedaling stops. (low power circuits, SPICE)

Sous Vide Temperature Controller: An integrated unit for converting a crock pot or hot plate into a sous vide (precision temperature) cooker without modification to the original cooker. Designed to be a marketable product. (control systems, power electronics, sensors)

Community Service

Flag Football Referee. Philomath Youth Athletic Club. 2014 - Present