

# Eric Evenchick

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## Skills Summary:

Languages: C, C++, C#, PHP, Python, MATLAB, Simulink, Stateflow, 68k Assembly, JavaScript  
Software: Altium Designer, Freescale CodeWarrior, Microchip MPLAB, Eagle CAD, Vim, Eclipse  
OS: Ubuntu, Arch Linux, Fedora, Windows, Mac OS X  
Embedded: Microchip PIC18, PIC32, ARM Cortex, TI MSP430, C2000, Freescale HCS08, Coldfire

## Experience:

Firmware Engineering Intern at Tesla Motors

Summer 2012  
Palo Alto, CA

- Wrote software and firmware in C to facilitate updates to automotive controllers
- Designed tools in Python to generate C code for automotive controllers
- Worked with a team to architect new control systems
- Incorporated automotive standards including Unified Diagnostics Services and Open Diagnostic Exchange

Electrical Team Lead at the University of Waterloo Alternative Fuels Team

Fall 2009 - Present  
Waterloo, ON

- Led development of electrical systems for an ethanol-electric hybrid vehicle, including the high power system, infotainment system, and control hardware
- Supervised engineering students working on electrical projects, including a photovoltaic battery charger and touchscreen kiosk
- Trained students on high voltage safety practices

Embedded Systems Specialist at CrossChasm Technologies

Fall 2011  
Waterloo, ON

- Led firmware development and hardware design for an automotive Controller Area Network data logger using C, Microchip PIC32, and Altium Designer
- Developed real-time software for CANopen motor control using MATLAB, Simulink, and Stateflow
- Debugged power and control systems for lunar rover projects

Systems Developer at Dome Productions

Summer 2010,  
Winter 2011  
Toronto, ON

- Created a cloud-based video streaming system using PHP and JavaScript that was used for broadcasting the 2011 Toronto International Film Festival
- Designed an automated video transcoding and archival system for the 2010 G8 and G20 summits
- Augmented and maintained an international television distribution network used for National Hockey League and other major broadcasts

## Education:

Candidate for Bachelor of Applied Science, Electrical Engineering, University of Waterloo, Waterloo, ON

2009 - Present

- Merit Scholarship, Fall 2009