

41510 McMahon Hall  
Seattle, WA, 98195

**Eli White**  
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**OBJECTIVE:** Seeking an engaging position developing large scale applications.

**EDUCATION:**

**University of Washington, Seattle, WA**  
**BS in Computer Science, GPA: 3.57, June 2012**

**PERSONAL PROJECTS:**

**WhiteBoard Discussion Board, March 2007 – Present**

- Identified issues with current discussion board systems, designed and developed an open source solution using algorithms and designs available exclusively in paid solutions.
- Wrote 14,000 lines of object oriented PHP utilizing MVC and other design patterns.
- Technologies Used: PHP, MySQL, XML, jQuery, XHTML and related web languages

**Music Visualizer, January 2009 – Dec 2009**

- Designed and built a circuit that allowed a microcontroller to communicate to a host over USB.
- Circuit used PWM to set 6 sets of LEDs (r, g, b) to blend any color.
- Wrote firmware that received commands from a host over USB that stored values in microcontroller's memory
- Wrote a host application that runs user defined animations and can set specific LED set's color.
- Wrote an iTunes visualizer that analyzed frequencies of music into 6 ranges to be able to output over USB to the circuit.
- Technologies Used: C#, Visual Studio, USB, PIC Microcontroller, MPLAB C18 Compiler, iTunes Visualizer API

**RELATED EXPERIENCE:**

**Teridian Semiconductor Corporation**

**Software Engineering Intern – June 2009 – September 2009.**

- Designed multi-threaded GUI applications for testing firmware and IC system with a script parser, serial RS232 for command line interface, drag-drop list view items for quick command access, using XML data structure for IC registers.
- Built high level host applications for an IC front end by reading and writing to IC registers over serial RS232 and SPI, controlling system watchdog, performing 32-bit energy calculations, and accessing multiple bit or byte registers.
- Worked with engineers to troubleshoot firmware bugs, design GUI application interface, write user guide manual, and demonstrate products to customers.
- Technologies Used: RS232, USB to SPI, C#, Visual Studio, XML, Microsoft Word

**University of Washington**

**Department of Technical Communication, Research Assistant – Oct 2008 – May 2009.**

- Assembled an interactive robot for human-robotic interaction research.
- Worked on mapping software to allow autonomous movement and navigation.
- Designed software to automate common tasks of research studies.
- Technologies Used: C#, Mono, Visual Studio, PHP, XHTML and related web languages

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### **MDY Industries, LLC (Glider)**

#### **Pather Developer and Support Lead – Dec 2007 – Dec 2008.**

- Collaborated with a team of 5 developing AI robot software that played World of Warcraft.
- Developed navigation algorithms using Dead-Reckoning.
- Wrote a scripting language the bot interpreted to decide all parameters of its task.
- Designed, programmed, marketed, sold, and supported a 3<sup>rd</sup> party application that dynamically created the scripts the bots used to do specific tasks.
- Supported consumers of all skill ranges in the installation and use of the bot.
- Wrote supplemental installation, usage, and detailed scripting guides.
- Technologies Used: C#, Visual Studio, PHP, MySQL, XML, vBulletin

### **Power Software**

#### **Lead Developer – June 2004 - Oct 2008.**

- Hired and managed a team of four developers.
- Analyzed current discussion board solutions, identified missing elements and problems.
- Collaborated with my team to create new software focusing on filling these missing elements.
- Developed product security, wrote software sales contracts, and sold copies of the discussion board.
- Provided consulting services for companies interested in well programmed, user friendly web applications focused on database driven applications; discussion boards, content management systems, and instant message style support applications.
- Averaged 210 downloads per day over a period of 6 months (~38,000 downloads)
- Technologies Used: PHP, MySQL, XHTML and related web languages

### **SUMMARY OF QUALIFICATIONS:**

- Languages: PHP, MySQL, C#, Java, JavaScript, XHTML, CSS, CVS/SVN
- Zend Certified PHP 5 Engineer

### **LEADERSHIP:**

- Received Boy Scout of America's Eagle Scout Rank in August 2008
- Member of University Of Washington's club ultimate frisbee team.
- Swim Coach for local team of 200 swimmers ages 5-18, also provided private lessons.
- Founded Irvine, CA's Parkour group and led a team of 7 during two years of training.