

JOSH WARDELL

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617-331-5824

Medford, MA

PROFESSIONAL EXPERIENCE

PG Trionic

Development Engineer

Essex, MA

Aug 2007–Present

Top-to-bottom design of embedded control systems for aerial lift equipment including DC power controllers, sensors, and IO peripherals. Fast-paced product development including schematic design, PCB layout, embedded software, assembly, testing and debugging. Real time microcontroller software including CAN/CANOpen communication, closed-loop PWM control, sensor acquisition, safety, and analog and digital IO. Engineering support of manufacturing including line setup and test automation. Troubleshooting, diagnostics, and repair of product issues and support of customers worldwide.

MIT Lincoln Laboratory

Senior Technician

Lexington, MA

April 2004–Aug 2007

Troubleshooting and repair of computer hardware issues on over a thousand Macintosh systems in the company as well as a portion of Dell computers. First and second-tier support of hardware, software, networking, and peripheral issues. Retained Apple Certified Desktop Technician status through annual testing and utilized Apple's GSX online repair system. Active participation in Macintosh policy and standard desktop image committee. Secret clearance.

Lockheed Martin at MIT Lincoln Laboratory

IT Desktop Support Analyst

Lexington, MA

Dec 2002–Apr 2004

On-site IT desktop and phone support. Support of over five thousand machines of various operating systems with a team of four. Performed all Macintosh support as well as a portion of Windows and UNIX systems. Achieved the highest degree of user satisfaction with all issues that arose including hardware, operating system, office, scientific applications, networking, and third party software. Secret clearance.

Motorola

Embedded Software Engineer

Northbrook, IL

Jun 2000–Dec 2001

C, Assembly, and Microcode design and implementation for automotive engine controllers. Programming of several microcontrollers, debugging, simulation, and bench testing performed with various lab tools. Produced controlled design documentation and participated in team inspection of all code. Participated in many technical and managerial training courses.

EDUCATION

Syracuse University

Bachelor of Science, Computer Engineering, May 2000

Syracuse, NY

SKILLS

Embedded system hardware and software design and debugging. C, C++, VisualBasic, JavaScript, AppleScript, Python, and assembly. Digital circuit design, PCB layout, and product assembly engineering. 20+ years of Macintosh system management and support. OS X Server, Windows, Linux, and UNIX integration and virtualization. Advanced digital photography, Photoshop, web site design and hosting.