



# Matt Buonadonna

Embedded Systems Programmer

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## Profession

Embedded system software programmer with approximately 2 years relevant experience in current firmware concept, design, development, testing and support.

- ✓ Embedded Software Development
- ✓ Software Design Process
- ✓ Test Case Development
- ✓ Software Architecture Design

## Professional Work Experience

**Intermec Technologies-Embedded Systems Developer** **Everett, WA 2007- 2009**

- C/C++ code development for handheld scanners
- Hardware abstraction layer development
- Kernel abstraction layer development
- Software architecture design and improvement
- Firmware feature, function and operation testing for handheld scanners
- Serial, USB & Bluetooth interface and protocol development
- Developed for the ThreadX embedded kernel and device drivers for Windows Mobile 6.1

**Alpha Technologies- ROHS Compliance Assistant** **Bellingham, WA 2006-2007**

- RoHS research and compliance assertion
- BOM auditing for RoHS compliance
- Parts & materials datasheet investigation and updating
- SAP Database updating

**US Military** **Oklahoma, WA 1997 - 2005**

- Leadership Development
- Team Management
- Team Member Performance Review
- Personal Accountability & Integrity

## Education

**TADA USB Training Course** **San Diego, CA 2008**

- USB Specification
- USB Device Design
- USB Code Design
- How to Test & Troubleshoot the USB interface
- Communication Protocol

**Independent Study**

- USB Complete, Jan Axelson
- Thinking in C++, Bruce Eckel

**Western Washington University** **Bellingham, WA 2007**

- B.S. in Electrical Engineering Technology, 3.4GPA

## Major Embedded Projects

**Point of Sale machine testing lab for new hand held barcode scanners**

- Researched & purchased popular PoS machines for testing
- Assembled a structured testing lab
- Implemented a testing procedure each new barcode scanner
- Maintained a test results database

**Team member during the development of a new hand held scanner**

- Created a Hardware Abstraction Layer
- Assisted in board bring up
- Implemented USB HID International keyboard support

**Wireless radio Federal Information Processing Standard implementation**

- Ported FIPS support code into the hand held terminals radio device driver
- Performed unit testing of the FIPS support code