

# Mark Dodd

## Career Summary

Experienced professional, keenly interested in developing new consumer products. Offers expertise in software design, engineering processes, project management and regulatory compliance. Tenacious and results-driven team player who is equally effective working within a leadership position or as part of a group of professionals committed to a common objective.

## Experience

### Aug 2016 - Present **Software Development Engineer** **Amazon - Toronto, ON**

- Maintain mobile app services in Amazon Seller Central.
- Create offerings that extend Seller Central to new customers.

### Mar 2014 - Aug 2016 **Senior Software Developer** **ecobee - Toronto, ON**

- Team lead for the Carrier Côt smart thermostat firmware.
- Developing s/w for and overseeing Wi-Fi compliance testing.
- Enhancing and adding new features to proprietary GUI API.
- Estimating time requirements, breaking down and assigning work.
- Interviewing and making recommendations on new hires.
- Implementing new and improving existing company procedures.

### Feb 2013 - Apr 2014 **Engineering Consultant (Part-Time)** **Detection Innovations Inc - Burlington, ON**

- Reverse engineered a C# client/server system with an SQL database, multiple Python based ZigBee mesh networks and a PHP

### May 2011 - Feb 2014 **Design Engineer** **Avvasi - Waterloo, ON**

- Wrote APIs and drivers to access low level hardware facilities including I<sup>2</sup>C busses, EEPROMs and Ethernet controllers.
- Added interfaces to first and third party hardware modules in Avvasi's Xperium OS (Ubuntu derived).
- Developed software for and oversaw offsite regulatory compliance testing.

### May 2007 - May 2011 **Software Developer** **BlackBerry - Waterloo, ON**

- Developed and maintained complete post assembly test solutions for multiple BlackBerry smartphones from prototype to EOL.
- Created and maintained s/w for custom test fixture mainboards with computer vision, I<sup>2</sup>C and power measurement drivers.
- Lead on-site engineering for test and production in Sweden, Mexico and Canada.

## Education

### **B. Sc., Computer Engineering** *Minor in Business*

University of Manitoba

Graduated with Distinction, 2006

Undergraduate Thesis: "A ZigBee Based Wireless Smart Home"

## Languages

**Fluent:** C++, C, Java, Python, C#, HTML, XML, .NET

**Proficient:** Vaadin, Servlets, ASP, bash scripting, Visual Basic, Javascript, Perl, Assembly, Ajax

**Experienced:** VHDL, Verilog

## Technologies

**MCUs/CPUs:** ARM, x86, 6800, 68000, PIC16, PIC18

**Wireless:** Wi-Fi, ZigBee, CDMA, GSM, Bluetooth, NFC

**OS:** Windows, Linux, Android, Mac OS

**Other:** Alexa Voice Service, passive Wi-Fi location tracking

## Projects

Star Trek inspired voice enabled smart home • location assisted grocery shopping • NFC credit card reader • Uber for snow removal

**US Patent 8,401,543**