

Mark Dodd

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Summary	
Experienced software engineer, keenly interested in developing new consumer products. Offers expertise in hardware, firmware and software design, engineering processes, project management and regulatory compliance. Strong analytical and problem-solving abilities with a track record of tackling complex technical challenges and finding efficient solutions. A results-driven team player who is equally effective working in a leadership position or as part of a group of professionals committed to a common objective.	
Experience	
Head of Engineering Woosh Air Jan 2022 - Present	<ul style="list-style-type: none">Responsible for the entire tech stack (mobile app, device hardware, firmware and cloud infrastructure).Manage all engineering employees across globally dispersed teams.Researched, developed and coded Woosh's proprietary predictive analytics – a core revenue driver.Established the technological roadmap from inception; currently building out second generation hardware and a three year technological roadmap.Owned FCC compliance testing and delivered scalable manufacturing test solutions for production lines.
Senior Software Engineer Amazon Aug 2016 - Dec 2021	<ul style="list-style-type: none">Technical lead for Local Voice Control in the Alexa Auto SDK, drove the initiative across eight teams including ML Science and engineering.Designed and delivered offline support for Callisto – Alexa embedded inside the Artemis I space capsule.Architected Local Hosted Skills (offline support for on device skill execution).Responsible for local skill SDKs and acting as the Engineering lead with external clients (BMW) for the product.
Senior Software Developer Ecobee Mar 2014 - Aug 2016	<ul style="list-style-type: none">Team lead for the Carrier Côt smart thermostat firmware.Acted as the engineering point of contact for external clients. Collected requirements and coded proprietary GUI/APIs necessary to implement proprietary algorithms and desired user experience.Designed/implemented Alexa Voice Service stack.Developed software for and oversaw Wi-Fi compliance testing.
Engineering Consultant Detection Innovations Feb 2013 - Apr 2014	<ul style="list-style-type: none">C# client/server system with an SQL database, Python based ZigBee mesh network and a PHP website front end.
Design Engineer Avvasi May 2011 - Feb 2014	<ul style="list-style-type: none">Wrote APIs and drivers to access low level hardware facilities including I2C busses, EEPROMs and Ethernet controllers.
Software Developer BlackBerry May 2007 - May 2011	<ul style="list-style-type: none">Developed complete post assembly test solutions for multiple BlackBerry smartphones from prototype through end of life.
Languages	<ul style="list-style-type: none">Fluent: C++, C, Python, JavaProficient: C#, Node.js/JavascriptExperienced: Dart, VHDL, VerilogFrameworks: AWS, Android SDK/NDK, Alexa Voice Service, Alexa Skills Kit, .NET, Node.js, Flutter, Flask
Technologies	<ul style="list-style-type: none">MCUs/CPU: ARM, x86, 6800, 68000, PIC16, PIC18Wireless: Bluetooth/BLE, Wi-Fi, ZigBee, NFCOS: Windows, Linux, Android, iOS, MacOSOther: Automotive Infotainment
Education	B. Sc., Computer Engineering Minor in Business University of Manitoba Graduated with Distinction
US Patent	8,401,543
Projects	<ul style="list-style-type: none">RaspberryPi based automated beer brewing systemJeep Wrangler CAN bus manipulation