

Embedded software contractor Embedded software contractor Embedded software contractor - Northrop Grumman Work Experience Embedded software contractor Northrop Grumman - Rolling Meadows, IL August 2018 to Present Wrote, analyzed, tested and debugged C++ embedded software for VxWorks-based embedded system. Developed and debugged lab tools written in C++ using Microsoft Visual Studio. Contributed to the development of a Continuous Integration/Continuous Delivery pipeline using Jenkins. Embedded Software Engineer Nokia / Alcatel-Lucent - Naperville, IL 2010 to July 2018 Embedded software: Developed and debugged low-level C and Linux bash shell software for an embedded single-board computer. Designed and developed C test software to provide comprehensive bootup, factory and design verification tests for telecommunications hardware. Developed a Board Support Package and APIs for VxWorks-based hardware. Analyzed and debugged field and factory issues. Software developer Lucent Technologies - Naperville, IL 1998 to 2010 Test software development: Provided wrapper layer software in C to provide an interface between legacy code and new API's. Wrote software in C, Tcl, Expect and UNIX shell to create an automated regression test system for an FPGA. Automatic protection switching software for an optical high-speed interface. Diagnostic self test software for IP interface and telephony hardware. Digital Hardware Developer AT&T - Naperville, IL 1986 to 1998 Hardware development - Digital circuit board and device design. Education MS Electrical Engineering in Electrical Engineering University of Delaware BS in Physics Drexel University Skills Embedded systems, In-circuit, Linux, Arm, Freescale, Logic analyzers, Oscilloscopes, Vxworks, Microsoft visual studio, Visual studio, C/C++ programming, Git, Tcl, Tcl/tk, Wind river, Configuration management, Clearcase Links <http://www.linkedin.com/in/markmcgahan> Additional Information TECHNICAL EXPERTISE Software -- C, C++, bash shell, Expect, Tcl/Tk Embedded systems - Linux and VxWorks OS; Freescale, Intel and ARM processors Configuration management -- Git and ClearCase Development environments -- Wind River Workbench and Microsoft Visual Studio Lab tools - oscilloscopes, logic analyzers, In-Circuit Emulators, PC-based tool development

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