

Curriculum Vitae

Bruce Lipp

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Education and Training

United States Military Academy	General Engineering	B.S.	1988
Georgia Institute of Technology	Computer Engineering	B.S.	2004

Professional Experience

2016 – Present	<i>Assistant Research Scientist</i>	<i>Desert Research Institute, Reno, NV</i>
2011 - 2016	<i>Software Engineer</i>	<i>Hamilton Company, Reno, NV</i>
2010 - 2011	<i>Software Engineer, Test Automation</i>	<i>International Game Technology, Reno, NV</i>
2008 - 2010	<i>Software Engineer, Product Assurance</i>	<i>International Game Technology, Reno, NV</i>
2007 - 2008	<i>VP of Product Development</i>	<i>Raven Technology Group, Reno, NV</i>
2006 - 2007	<i>Director of Manufacturing</i>	<i>George T. Hall Company, Reno, NV</i>
2004 - 2006	<i>Project Manager</i>	<i>Applied Industrial Controls, Reno NV</i>
2001 - 2004	<i>Research Scientist</i>	<i>Georgia Tech Research Institute, Atlanta, GA</i>

Awards

United States Patent 813035 – Ethernet Interface
Issued February 27, 2012

Significant Projects

Automated control of an optical density measurement device. Data collection was implemented on an Arduino embedded computer. System integration and web page data display were implemented using a Raspberry Pi embedded computer.

Developed multiple device drivers for integrating laboratory instruments with a fluid handling robotic platform. Serial and Ethernet were the primary communication methods.

Developed Windows based application for automated testing of electronic gaming machines. Required fabrication of custom wiring harness to interface with the video control board in order to upload screen captures.

Developed and patented an Ethernet interface device used to convert industrial devices from serial communications to TCP/IP. It was hosted on a micro embedded computer and featured a web server for configuration and data monitoring.

Ported a military RADAR identification program from a proprietary embedded computer to a PowerPC based host system. This required code translation from assembly to C.