

# Craig Hamilton

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## Summary

**I am a software engineer with over 15+ years experience designing and developing solutions targeting various platforms. My experience ranges across many programming languages using different development disciplines.**

- 15+ years of C/C++ and 9+ years of Java/JavaScript development experience.
- 15+ years of experience with developing for and bringing up embedded system.
- I work equally well in large coordinated team environments or in a more autonomous role.
- Excellent problem solving and analytical skills.
- Creative and innovative with 14 patents applications filed with 2 being granted.

## Skills

*(Category items ordered with most recent experience first)*

**Programming Languages:** C++, C , JavaScript, Java, SQL, C#, Visual Basic, Assembly

**Operating Systems:** Linux, webOS, Windows, Mac OS X (Not Expert), Windows Mobile, Palm OS, Geos

**Processor Architectures:** ARM, x86, Atmel AVR, 8051, Nokia 9000i

**Development tools:** gcc/gdb, Gnome's Glib/glibmm, Boost, STL, V8 JavaScript engine, Node.js, JTAG Debugger, Logic Analyzer, Visual Studio, Windows DDK, MFC, ATL

**Protocols:** TCP/IP, I2C, some USB, x10 home automation as a hobby, COM/DCOM

**Databases:** Sqlite, MojoDB, JDBC, Oracle, MS SQL, Sybase Ultralite, JET, ODBC, ADO.NET

## Employment History

### Kohler Power

*May 2012 to Present*

*Position: Consultant working for AWI Staffing*

- Designing architecture for future Kohler Power generators embedded controllers using design patterns/C++.
- Working with XMPP to create a flexible and robust Client/Server design in Java/C++.

### Palm, Inc. / Hewlett-Packard

*April 2005 to May 2012*

*Position: Technical Manager/ Senior Software Engineer*

- Architect and implementor for the webOS system network proxy solution using C++/libCurl/V8.
- Created a Node.js module to integrate with the webOS system proxy using C++/JavaScript.
- Member of an internal committee to create coding review standards.
- Led a cross functional team to implement support for simultaneous multiple PDP support per carrier requirements for the webOS platform.
- Initiated a project that made the Linux kernel's TCP/IP stack power aware for webOS.
- Designed and then managed the team to implement Palm's webOS Doctor recovery tool in Java
- Architect and implementor of the VPN framework for the webOS platform using C++/JavaScript/SQL.
- Created a Cisco AnyConnect Plugin for the webOS VPN Framework using C++.
- Created the webOS connection management middleware using C++ and supported the public SDK API.
- Developed captive portal and dead networks detection algorithms unique to webOS using C++/JavaScript.
- Created a GPS hardware abstraction for Palm's Windows Mobile and Linux devices using C/C++.
- Designed and Implemented a MMS 1.2 stack per OMA standards in Java for the webOS platform.
- Created an SMS/WAP Messaging Router solution for webOS platform using Java.
- Created the initial webOS Wi-Fi, and Device Info applications using JavaScript.
- Managed a 4 person team that maintained the VPN Framework, Linux kernel networking, firewall, and routing configuration for the webOS platform.

**Sparton Electronics Medical Solutions** *February 2003 to April 2005*

*Position: Senior Software Engineer*

- Created bare metal application for a rapid blood infusion pump system using C++ for the Atmel Atmega128 AVR Processor .
- Integrated a Linux Kernel Distribution and Developed System software/drivers in C/C++ using GNU gcc for the Sharp LH7 ARM processor to drive a gynecological incontinence diagnostic tool.
- Developed a Java/JBoss/Tomcat J2EE parts management and help request website for internal use.
- Developed and Documented all software targeting medical applications by following FDA guidelines.
- Team lead for all software design and development efforts for medical devices.
- Created project schedules and managed software resources to bring the projects in on time and budget.

**SAT Corporation** *December 2001 to December 2002*

*Position: Senior Software Engineer*

- Responsible for the design and development of the PocketPC client software for IntelaTrac 2.x/3.0 releases.
  - Primary programming language was C#.
  - Worked extensively with ADO.NET, Winforms, Remoting, and ASP.NET web services .NET technologies.
- Supported and Extended a JBoss J2EE Web Reporting solution using Enterprise Java Beans, JSP/Servlet web pages, and JDBC connecting to an Oracle database.
- Evaluated and wrote business cases for outsourcing scanner device driver conversions for the Symbol 2234.
- Developed IntelaTrac solutions for the Symbol 8100/2800(Windows CE) and Symbol 2234 (Windows 95) devices using C++.

**SMSC** *August 2000 to April 2001*

*Position: Consultant working for System Pros*

- Developed VHDL virtual devices using C for chip synthesis of a southbridge controller.

**Symbol Technologies** *June 1998 to June 2000*

*Position: Consultant working for System Pros / InVision Software*

- Brought up PocketPC 3.0 OS on the Symbol 2700 bar code scanner platform.
- Developed Validation Test applications for the Symbol 2700.
- Developed software library SDK and driver for the Symbol Palm OS Handspring bar code scanning module.
- Worked with Symbol Technologies to develop GSM/Tetra SMS applications for London's police force.
- Developed Windows Mobile RFID Driver software for Symbol devices.

**Union Carbide Corp** *February 1998 to June 1998*

*Position: Consultant working for Momentum*

- Developed Visual Basic 5.0 applications using Jet/ODBC/OLE/MAPI Technologies.

**Synaptix (Startup)** *September 1996 to April 1998*

*Position: Software Engineer/Network Engineer*

- Setup and maintained Synaptix's networking hardware and software infrastructure.
- Developed a Nokia 9000i socket client for Synaptix's mobile forms based server using C.

**Shell Oil** *June 1996 to June 1997*

*Position: Consultant working for RCG*

- Developed Java applets for the RCG Intranet Web Site for displaying status information.
- Developed a client/server document imaging system that integrated with Exchange Server, Oracle ODBC, Jet databases, and Scanning library software using Visual Basic/Visual C++.
- Created installations packages using Wise, and Install Shield.
- Installed and supported a Winframe 1.6 Citrix Server for running corporate applications.

## JSC NASA

August 1995 to June 1996

Position: Consultant working for Boeing Technical Services

- Team lead for IT support of the astronaut office at Johnson Space Center.
- Developed and Implemented an NT Network Design for the Shuttle Division that included: SMS1.1 / SQL6.0 / DHCP / NT351 / FPNW / Windows95 / MS Exchange.
- Developed a scheduling and biographical databases using VBA Access 95.
- Wrote Visual C++ Application to streamline and reduce support costs.
- Developed VBDOS support disk control system to increase efficiency of IT support engineers.

## Jefferson Associates Inc.

April 1995 to September 1995

Position: LAN Specialist

- Created a Windows NT based software platform and network infrastructure using for the Houston Independent School District.
- Configured network wide IP configuration via the Windows NT DHCP, WINS, and DNS software services.
- Setup management via the Microsoft System Management Server 1.1 software solution.

## JSC NASA

May 1992 to April 1995

Position: Consultant working for CSC/Grumman Technical Services

- Developed Help Desk Software Using Visual C++ 2.0.
- Unix System Administrator.
- Exposure to Sun Net Manager/Trakker Software and other network management tools.
- Supported 300+ users on Macintosh, Linux, Solaris, NT WS, DOS, WFW 3.11.

## Patents

- I currently have invented or been listed as a co-inventor on 14 Patents that have been filed by Palm, Inc. with the US Patent office and/or European Patent Office. 2 Patent has been granted.

## Special Awards

	<b>Eagle Scout Award:</b> I earned the Eagle Scout award by excelling in the areas of leadership communication and intelligence.
	<b>Microsoft Certified Systems Engineer (MCSE):</b> Test taken to earn this are as follows: Microsoft Certified Service Engineer Core required test, Inter-networking NT with TCPIP, Exchange, and Systems Management Server tests. ***Certification is not current.
	<b>Microsoft Certified Solution Developer (MCSD):</b> Test taken to earn this are as follows: WOSA I and WOSA II, Visual Basic 4, and Developing application with MFC. ***Certification is not current.

## Training and Education

- Certificate of training from Eclipse for Windows CE 2.11 Platform Builder.
- Certificate of training from Geos for Geos Software Development (Nokia 9000i OS).
- Certificate of training for Visual C++ / MFC Version 2.0.
- 3.5 Years Stephen F. Austin State University: My course work for my Computer Science degree gave me some excellent chances in configuring and exploring the workings of networks and specifically Internet connectivity from supporting the computer labs for 2 years.