Christopher A. Taylor

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Objective

Hands-on project manager utilizing my experience in embedded hardware and software design.

Software Skills Summary

Application:	Expert:	C++, C, VB6	[10+ years]
	Intermediate:	C#, Java, Python, Qt, Boost, C++0x	[2 years]
Embedded:	Expert:	VxWorks, 1750A, x86-64 assembly code	[3 years]
	Intermediate:	Motorola assembly code	[1 year]
Webapp:	Expert:	Linux server administration, MySQL, PHP	[4+ years]
	Intermediate:	Tomcat7, Android software development	[1 year]

Employment History

ALR-69 RWR Lead Software Engineer for GTRI-ELSYS *February 2008 – Present*

- Designed and implemented novel embedded firmware and software algorithms for the ALR-69 RWR for F-16, C-130J, A-10, and B-52 aircraft. Successfully flight-tested the new algorithms and introduced them to the EW community.
- Xilinx firmware design in VHDL, ModelSim testing and ChipScope debugging for a mission-critical hardware component.
- Designed and led a team of software engineers to develop a new architecture for WinForms C# plugins for legacy MFC-based C++ applications to allow further growth of a legacy application.
- Profiled a multithreaded MIL-STD-1553 bus application and identified bottlenecks, leading to 4x greater performance.
- Directed the work of five student assistants assigned to my projects.
- Managed a $1.8 million project, all deliverables on time and in accord with specifications, including monthly status reports and positive contributions from my team.
- SECRET clearance and experience working on several USAF airbases.

GTA and Graduate Student at Georgia Institute of Technology *September 2006 – Present*

- Lab instruction for incoming students in circuit analysis.
- Designed, built, and characterized a surface-mount microwave power amplifier at 2.4 GHz.
- Designed, implemented, and demonstrated a reliable data delivery system for a ZigBee wireless sensor network.
- Designed, implemented, and simulated 45 nm VLSI circuits for memory, addition, and two registers.

Web Developer for www.megafitness.com *June 2006 – September 2006*

- Maintained a Yahoo! store front and coded HTML and JavaScript-based SEO solutions with guidance.

Software Developer for Florida Department of Transportation *2006*

- Assisted in the development of a C++ plugin for a MATLAB project that analyzed recorded GPS data from automobiles.

Additional Experience

- Designed, developed and tested a new encryption library for RakNet (www.raknet.com), a popular commercial network engine for online games. The library implements 256-bit ECC key agreement, signatures and authenticated encryption.
- Implemented modern cryptography, reliable transport over UDP, forward error correction, and scalable multithreaded servers for future Internet-enabled applications in C++.
- Developed an SPI-based SD card driver with graceful failure modes, full error checking including the optional checksums and read-back steps in PIC-BASIC. Verified correct and efficient operation of the SD card driver with USBee.
- Arduino and el-wire electronics hobby projects.

Awards & Societies

- IEEE Membership 2010 – 2011
- Received annual bonus compensation at GTRI 2010 – 2011
- FDOT Undergraduate Researcher of the Year Award 2006
- Phi Beta Kappa Honors Society 2002 – 2006

Education

- **MsEE** **Spring 2012**
  Georgia Institute of Technology College of Engineering, Atlanta GA
- **BSEE** **Magna Cum Laude** **2002 – 2006**
  Florida State University FAMU-FSU College of Engineering, Tallahassee FL