

Profile:

Senior at University of Maryland, Baltimore County, studying computer engineering, with experience in software design and electronics.

Most experience in small group software, or hardware projects. In college academics, a 3.3 overall GPA, and Deans List Spring 2006. Boy Scouts of America Eagle Scout.

Has in-depth and multi-platform knowledge in following software areas:

- Network programming (Mostly TCP/IP)
- Web-interface software
- General user interface systems and media-intense/3D user interface systems
- Advanced C++ programming techniques

Proficient in following Programming Languages and Programs and Environments:

- C/C++ in Linux, OSX, Win32 (VC6 through .NET 2005), PIC 16/18/30F, Z80, AVR (ATMega), IBM CELL and Emotion Engine
- ASM (x86, 8051, PIC, SPU)
- GPU Programming (OpenGL + GLSL) simulation and GPGPU
- Microsoft Windows, and Linux (Redhat & Gentoo)
- Basic (Q, and Visual Basic, VB .NET, ASP)
- PHP, and HTML, with MySQL Interfacing
- Microsoft Office and OpenOffice
- CVS (Concurrent Versions System), SVN and MKS
- ODE (Open Dynamics Engine)

Has knowledge of following electrical systems:

- Rabbit Ethernet integrated systems
- PIC16C745 USB interface
- Nordic RF 2.4 GHz range wireless
- Linear series analog components
- Low-speed optics (Laser and LED)
- Controller Area Network systems (CAN)
- Audio Amplifiers
- General switch-mode circuits
- Analog filters
- 7400 series logic components
- Experience with other various microprocessors
- DMX, RS-232, SPI Interface/Protocol

Professional Experience

- Oceaneering International 2007-2008
Junior Software Engineer
- Developed wide range of web and client software
 - Debugged and developed software and hardware on range of embedded systems.
- Blackrocks Technology 2006-2007
Software Engineer
- Engineer software from start to finish
 - Develop cross-platform software-web interface systems
- Accomplishments:
- Completed a proof of concept 3D Security user application
- CSEET Classrooms Support 2006-2007
Support Technician
- Development and deployed dual boot disk images
 - Maintained classroom computer hardware
 - Worked with teachers and students for computer support
- Magical Nights DJ Services 2000-2006
Professional Disc Jockey and Technician
- Advertising company locally to obtain clients
 - Meeting with clients to assess and discuss needs and requirements
 - Repairing range of equipment
 - Training new DJs
- Accomplishments:
- Produced a DMX, microprocessor controlled lighting controller and software to use controller
 - Produced low-power backup amplifier
 - Modified lighting to increase system compatibility
- StepMania 2004-Present
General Developer and StepMania Online co-creator
- Performing debugging on 300,000+ line code base
 - Using CVS code control to modify code base with 20+ developers
 - Adding general functionality and networking features
 - Maintaining and migrate code from other developers to newer systems
- Accomplishments:
- Completed StepMania Online with a current user base of over 60,000 users.