
Looking to inspire creativity in others through the research and development of embedded systems

Summary of Qualifications:

- ❖ Strong communication and project management skills
- ❖ Easily adapt to new hardware and software systems
- ❖ Creative design and troubleshooting skills
- ❖ Dedicated and efficient team leader
- ❖ Aesthetic design skills and artistic eye

Skills

- Microchip IDE
- Assembly
- Basic Stamp IDE
- Verilog HDL
- LogicWorks
- C#
- Circuit Design
- PCB Design
- EagleCAD
- Product Documentation
- Hardware Prototyping
- 3D Design in Maya
- Adobe Photoshop
- Adobe Dreamweaver
- Adobe Flash
- MS Office Suite
- HTML/CSS
- PHP
- Asterisk PBX
- Windows Server 2003
- UNIX/LINUX

Projects

- 2008 UAT Near-Space Program
Project Lead/Launch Master
- Managed three teams of five students
 - Successful launch of a balloon payload to 93,000 feet ASL
 - Gained field experience in scientific data analysis and processing
- 2007-2008 SX Development PCB
Project Lead/Designer
- Design and development of a carrier PCB for the SX28 Microcontroller
 - Added functionality while maintaining footprint of previous product line
 - Produced for student use in an educational environment
 - Documentation and application notes
- 2007 4-bit Microcontroller Simulation
Research and Design
- Advanced microcontroller design from basic logic components
 - Digital logic design and limitations assessment
 - Defined custom machine code
- 2003-2008 3D Projection Systems
Research and Implementation
- Inexpensive 3D projections using polarized light and rear projection
 - Developing calibration and mounting systems
 - Introduction to infrared position tracking

Education

2005-Present University of Advancing Technology Tempe, AZ
Degree: Bachelor of Science in Software Engineering - Emphasis in Robotics and Embedded Systems
Expected Graduation Date: April 2009 GPA: 3.9

Course Highlights:

- Special Topics in Hardware Hacking – Modification of hardware and innovative techniques
- Evolutionary and Adaptive Systems – Programming basic environmental adaptation
- Special Topics in Propeller Chip Programming – Introduction to multi-core embedded systems
- Special Topics in FPGA Programming – Introduction to FPGA core design in Verilog HDL

Work Experience

2008 Honeywell Intellectual Property International Tempe, AZ

Student Intern

- Researched possible IP enforcement opportunities
- Reviewed and provided commentary on IP packages
- Assisted in developing IP portfolio management techniques

2006 Christopher Marona Photography Durango, CO

Assistant Photographer

- Professional photo retouching
- Product photography and studio sittings
- Web Design

2005 Home Depot Tempe, AZ

Electrical Floor Service

- Customer assistance with projects and sales
- Inventory management

2004-2005 Independent Contracting Durango, CO

Photographic Retouching and Printing

- Worked with large orders on short deadlines

Achievements

- 2008 Awarded UAT Student Innovation Award
- 2005 Awarded UAT Presidential Honor Scholarship & Advancing Technology Award
- 2001-2005 Honors Member Theatre Troupe #1096
- 2005 Honors Society Member

Community Service/Volunteer:

- 2008 BlackHat Network Security Conference, Las Vegas, NV
- 2007 UAT Foster Angles
- 2007 Arizona Science Center Triple Play Day
- 2007 BlackHat Network Security Conference, Las Vegas, NV