ERIC SHIELDS _____

13 Marian Ter, Binghamton, NY 13901
Cell Phone: (607)221-5725 (Preferred method of contact)
Email: *shiermail-jobs@yahoo.com*

Job Search Details:

Objective:	To put my skills and energies toward a web development or software engineering full time job. I am especially fond of using PHP, JavaScript, XHTML and C.
Availability:	Starting in or after October 2006. **Official graduation will occur after 8-10 weeks of work are completed**. This is verifiable with my educational institution.
Citizenship:	**US Citizen**
Desired Job Titles:	Content Engineer – Web, Software Engineer, **HTML/JavaScript/PHP Developer**
Job Details:	Full-Time, Internship or Entry Level, No Shift Preference, Willing to Work Weekends and/or Overtime, **Willing to Relocate to Anywhere in the US**
Work Experience:	*2 Years Software Engineering-related Experience*
	1 Year Web Design-related Experience ***Portfolio Available***

Education:

ROCHESTER INSTITUTE OF TECHNOLOGY, ROCHESTER, NY   EXPECTED GRADUATION: NOVEMBER 2006
Bachelor of Science in Computer Engineering

Employment History:

SOFTWARE ENGINEER: SUMMER INTERNSHIP PROGRAM
Honeywell Aerospace   June 2006 – September 2006
                                                                                       Phoenix, AZ

- Create an Intranet website to allow the search and retrieval of engine test data by employees
- **Involved PHP, XHTML, Javascript, DHTML, Fusebox, and knowledge of ColdFusion and Perl**
- Required testing in many system/browser combinations to ensure functionality in any situation
- Designed for expandability and maintainability - Fully W3 standards compliant
- Completed in 3 months, from initial concept to live release
- Involved finalizing a smaller site, then completely reworking it to use Fusebox framework and merge it with another site
- Also used Logins, sessions, cookies, and a great deal of interaction with files
- Continued working on the project after the internship was completed to help debug, understand, or add to it
- Wrote a tutorial document to help new users use the website

SOFTWARE ENGINEERING CO-OP
Harris RF Communications   September 2005 – November 2005
                                                                                       Rochester, NY

- **Issued a security clearance**
- Familiarization with manuals, concepts, functionality, and testing of Falcon II radios
- Learned basics of Visual Basic in under 1 week
- Modify existing Visual Basic code to improve GUI's for multiple test scripts
- Debugging and alteration of Visual Basic testing scripts
- Assisted with field testing of new radio software and learned some military radio communication protocols

SOFTWARE ENGINEER: SUMMER INTERNSHIP PROGRAM
Honeywell Aerospace   June 2005 – August 2005
                                                                                       Phoenix, AZ

- Design a program in PHP to convert very old file format to a newly developed one. (4000 lines of code)
- Read, understand, and modify the conversion program from the new format to the old, in Perl
- Design programs in PHP to test the conversion from the new format to the old
- Project of great importance; undertaken to prevent the loss of extensive amounts of test data being stored in the old format on servers which are no longer supported
- Required extremely fast adaptation to new climate, new work environment, and new programming languages. Learned PHP and Regular Expressions in less than 5 days each
- Required all previously attained skills in greater effect then ever before

RESEARCH TECHNICIAN
Dr .Greg P. Semeraro, PH.D.   January 2005 – March 2005
                                                                  Rochester, NY

- Design and implement ways of completing research related tasks, such as discovering and correcting the cause of a benchmark program not working with software created by Dr. Semeraro and previous students.
- Little supervision, necessitating personal motivation and inventive ways of solving problems.

CREW CHIEF AND COMPUTER TECHNICIAN   Summer 2002 & 2003
Shields Surveying   *Deposit, NY*

- Supervised other crewmembers in completing various surveying jobs in the field, involving improvisation, leadership, problem management, prioritization, time management, and human relations skills.
- Worked with the office computers with aspects such as installing and upgrading new PC software/hardware and teaching the use of the software/hardware to the employer

Projects:

EBOOKFORMATTER (FREE-TIME PROJECT)
- Self-motivated project to produce an extensively functional text formatter for use with eBook-style text documents and emails. Written in PHP and HTML. Hosted by Sourceforge.net at http://ebookformat.sourceforge.net/

WEBSITE DESIGN AND IMPLEMENTATION (RIT PROJECT)
- Contained both an individual project and a group project intended to make use of the many aspects of XHTML and JavaScript available, including Cascading Style Sheets, XHTML and HTML, PHP, JavaScript, Forms, Form Mail, Password protected pages, and validation. Please visit the pages below (Best Viewed in Firefox or other W3 Standards compliant browser, including any major browser except Internet Explorer)
- http://www.rit.edu/~ers3268/409/final   – Final individual project
- Link currently unavailable   – Group project

INTERFACE AND DIGITAL ELECTRONICS (RIT PROJECT)
- Team project to design and demonstrate a heartbeat monitor using an Opto-Isolator and a Motorola 68HC12 Microcontroller – Performed all hardware design and construction and assisted with software design

SOFTWARE ENGINEERING (RIT PROJECT)
- Team project to design entire bowling management system using Java, including automatic and manual scoring, and complete graphical user interface in a real-world environment (e.g. weekly status reports, team reviews, and final project reflection)

COMPUTER SCIENCE (RIT PROJECT)
- Team project to design adaptable genetic mating algorithm using C++ and apply it to problems such as solving a maze and a number guessing game

Relevant College Courses:

Website Design and Implementation	Operating Systems Concepts I
Computer Science I – IV	Introduction to VLSI Design
Software Engineering	Design Automation of Digital Systems
Applied Programming	Digital System Design
Introduction to Computer Vision	Computer Architecture
Introduction to Digital Systems	Senior Design Projects I – II
VHDL	Computer Organization
Interface and Digital Electronics	Data and Computer Communications
Circuits I – II	Digital Signal Processing
Electronics I – II	Assembly Language Programming

Computer Skills:

- **Programming Language skills**
  - Extensive knowledge in C, PHP, Regular Expressions, XHTML and CSS
  - Workable Knowledge in XML, VHDL, Fusebox
  - Knowledge in Visual Basic, Perl, Java, C++
  - Very quick study of new languages and programs
- **Operating System and specific program skills**

All Forms of Windows	Emacs	ModelSim	Mentor Graphics Suite
UNIX	vi	PSpice	WinSCP
LINUX	MS Word	PuTTY	
Macintosh	MS Excel	X-Win	
MS-DOS	MS Powerpoint	JEdit	

Honors and Activities:

- RIT Presidential Scholarship
- TAP award for excellence in academics
- High School Honor Society Member
- Member of People to People International Student Ambassador Program since 2000
- Member of House of General Science at RIT, 2001-2004
- *Community Service Head* of the House of General Science, 2002-2004
- Volunteer and fundraiser for Multiple Sclerosis Society, 1999-2001
- Varsity Track and Field (Indoor and Outdoor), 2003-2006
- IEEE Society Member
- Avid outdoorsman, and environmental advocate

REFERENCES, TRANSCRIPT, AND CODE SAMPLES AVAILABLE ON REQUEST