RESUME

Michael Howard Overlin

Education:

BS Physics, UC San Diego, 1991
MS Physics, UC Irvine, 2000

Skills: (for details see "Work and Educational History" section that follows)

Computer programming
- C, C++, Visual Basic, Java for MS-Windows and Linux
- General application development, computer graphics, and also scientific / mathematical applications
- Some web development, server side scripting

Computer and related equipment setup and configuration, using available documentation for the setup and/or configuration process

Simple electrical work

Mathematical work

Work and Educational History:

Graduated Santa Teresa High School with High School Diploma 1986

From September 1986 to December 1991
Institution: University of California at San Diego
Course of Study: BS in Physics

From February 1991 to June 1993
Employer: Sapien Technologies
Position: Computer Programmer
Duties:

Added features to an application used by chiropractors and sports trainers. This application was written in Pascal for MS-DOS. The application took input data from a custom diagnostic device which measured the movements of a patient's or an athlete's back. The application displayed the data in graphs and analyzed it to identify characteristics of the motion.

In C and C++ for MS-Windows, wrote graphics and animation code. Implemented MS-Windows portion of libraries which allowed the same graphics code to be used for both Macintosh and MS-Windows applications.

In C and C++ for MS-Windows did user application development.

Supervisor: Ferdinand Rios and Paul Lamoreaux
Reason for leaving: I wanted a chance to be lead developer on an application rather than just implementing portions and adding new features.

From August 1993 to October 1994
Employer: OnTrack Media Corporation
Position: Computer Programmer
Duties:

In C++ for MS-Windows, developed from scratch an application for use by career counselors and individual users. The application allowed a user to browse a government database of roughly 50,000 job categories in the US. The database contained, for each job title in the database, information on the physical and mental activities involved in the job, as well as the aptitudes required. The user was able to search the database for job categories which matched his / her own aptitudes and preferences.

The application implemented a custom graphical user interface developed by a professional user interface designer who consulted for the project. A custom hyper- linked help system was implemented. A custom system to display sound and graphics animation sequences was developed.

This application was released under the name "CareerPath". An independent review of the product by Dr. Grace Smith can be found at http://www.worldvillage.com/wv/school/html/reviews/career.htm. Out of a possible score of 5, the application received an overall score of 4. The review includes screen shots of the application.

Supervisor: Steve Kimmelman
Reason for leaving: Began graduate study at SF State University in Physics Department

From September 1994 to June 1996
Institution: San Francisco State University (Physics Department)
Course of Study: Masters program in physics
Work experience / additional information:

As a teaching assistant I taught an introductory lab course in electronics for one semester. Enrollment was about 30 undergraduate students. Students built simple circuits using resistors, capacitors, inductors, sin wave generators, etc., and compared theoretical results to measurements with multi-meters and oscilloscopes. I was responsible for explaining concepts, helping students during the lab, and grading lab reports.

Reason for leaving: Began Ph.D. program in Physics Department at UC Irvine

From September 1996 to June 2000
Institution: University of California at Irvine (Physics Department)
Course of Study: Ph.D. in Physics
Work experience / additional information:

I passed the Ph.D. qualifying exam after my first year, in the fall of 1997. Out of about 10 graduate students taking this exam, I received the UCI Physics departments Marco Vekic'

Memorial Award for receiving the high score on this exam, and $500 cash (see http://www.physics.uci.edu/NEW/gradawards.shtml)

I worked as a teaching assistant for about 5 quarters. As a teaching assistant I was responsible for explaining concepts, and problem-solving techniques necessary for homework and exam problems. I wrote up and published solutions to homework and exam problems. I graded the students homework and exams.

I taught an upper-division course in electromagnetism, to about 50 undergraduate students in their junior year.

I worked as a research assistant for about 4 quarters, for professor Clare Yu, and for one summer for professor William Molzon.

For Dr. Yu I wrote computer code to simulate the behavior of systems of particles as they underwent, for example, transition from liquid to solid as the temperature was lowered. This programming work was done for the Unix / Linux operating system. For Dr. Molzon I wrote computer code to perform simulations which analyzed the cosmic ray background in an experiment Dr. Molzon was preparing to perform at Brookhaven National Laboratory.

Publications:

"Disorder Dependence of Phase Transitions in a Coulomb Glass", Michael H. Overlin, Lee A. Wong and Clare C. Yu, Physical Revue B, 2004

Technical Report: "Estimates of cosmic ray induced background for MECO", M. Overlin and W. Molzon, meco-014, 1997

Reason for leaving: Began Ph.D. program in mathematics at UC Irvine

From September 2000 to February 2002
Institution: University of California at Irvine (Mathematics Department)
Course of Study: Ph.D. in Mathematics
Work experience / additional information:

I passed two of three Ph.D. qualifying exams, in real analysis and abstract algebra.

I worked as a teaching assistant for about 3 quarters. For duties as teaching assistant see previous. I lead discussion sections for classes in calculus.

Reason for leaving: Special circumstances, described below.

From February 2002 to August 2005

During this period I was involved in political activity to expose the use of involuntary human testing in classified research. The goal of this classified research is to understand possible uses of microwave radiation for anti-personnel weapons and for directly influencing human behavior.

I was in Europe from October 2002 until August 2005. I am myself a victim of this research. My personal web site describes my involvement: http://www.geocities.com/mrmistermicko .

From October 2005 to March 2006
Employer: Steinbrenner Ramada Inn in Ocala, Florida
Position: Dishwasher
Supervisor: Rene Aguilera

From March 2006 to July 2006
Open Source Project: Poster Printer
Web Sites:

http://sourceforge.net/projects/posterprinter -- Project web site on SourceForge.

http://posterprinter.sourceforge.net/ -- The web site for users, **with screenshots** .

http://posterprinter.sourceforge.net/dolphins_in_space_example.html -- A tutorial-by-example on using the software .

Description:

The Poster Printer software package works with the user's existing printers to allow the user to print documents at a much larger size than would fit on a single sheet of paper.

This is accomplished by enlarging the document to print to multiple pages in such a way that the enlarged image appears to continue seamlessly across the separate pages of output.

The software installs what appears to be a new virtual printer, by default named "Poster Printer", to the user's system. The new printer operates similarly to a "fax" printer, capturing the images of documents that are printed to it.

After a document is printed, the "Poster Utility" is automatically launched. From this utility the user has the option of either printing the document at its normal size or enlarging any particular page to make a "poster" out of it.

For more a more complete description and to see screenshots please visit the web site for users (URL given above).

An installer for the software can be downloaded from the project web site. It currently runs on Windows NT 4.0, Windows 2000, and Windows XP . The project web site also has a link to browse the source code.

From August 2006 to August 2007
Employer: Santa Fe Community College (Gainesville, FL)
Position: Adjunct Mathematics Instructor
Supervisor: Dr. Byron Dyce
Description:

Taught semester-length courses in introductory algebra, college algebra, and topics in mathematics.