

Education

Jan-2005–Dec-2008: University of Texas at El Paso, El Paso, TX

Bachelor of Science in Computer Science, *cum laude*. Overall cumulative GPA 3.70, Computer Science major GPA 3.80.

Aug-2001–May-2004: El Paso Country Day High School, El Paso, TX

Received a high school diploma. Graduated with a 3.75 GPA.

Work Experience

Mar-2009–Present: Software Engineer Associate, IS&GS-Defense, Lockheed Martin, Sunnyvale, CA
Contact: René R. Barrios, Jr., SASC ISET Chief Engineer; Ryan Davis, Systems Engineering Manager

Perform software engineering and tool integration duties at the SBIRS Auxiliary Support Center (SASC), a facility that exists to support the SBIRS GEO space vehicles. Duties include development and maintenance of software tools required to support a satellite operations-oriented tools system, development of technical documentation, and occasionally systems maintenance. Software development is primarily in C and Perl. Code development and documentation follows IEEE standards.

Aug-2007–Dec-2008: Undergraduate Research Assistant, University of Texas at El Paso, El Paso, TX
Contact: Eric A. Freudenthal, Ph.D., Assistant Professor

Worked as a researcher for embedded systems topics in computer science. Have received four publications in conferences and journals to date. Continuing to pursue additional research opportunities with professor.

Jan-2007–Dec-2008: Teaching Assistant, University of Texas at El Paso, El Paso, TX

Contacts: Steve Roach, Ph.D., Associate Professor; Eric A. Freudenthal, Ph.D., Assistant Professor
Worked as a teaching assistant for the Computer Architecture I course at the University of Texas at El Paso's Computer Science Department. Duties included conducting six hours weekly of lab session, creating quizzes, and assisting Dr. Freudenthal with curriculum design and modification. Topics covered in the course were related to embedded microprocessor programming using C and assembly language.

Jun-2008–Aug-2008: College Student Technical Specialist, M&CSS, IS&GS (now IS&GS-Defense), Lockheed Martin, Colorado Springs, CO

Contact: Jim Brake, Systems Engineering Manager

Worked on web-based applications for distributed command and control for a multi-mission satellite operations center. Duties included software design and development using HTML, XHTML, XML, JavaScript, and JSON technologies. Additional development was performed using Apache/Tomcat Java servlet technologies. Server maintenance/administration was performed regularly to ensure availability of software for customer demonstrations.

Jan-2006–Dec-2007: Independent Contractor, Hospice El Paso, El Paso, TX

Contact: Patricia Macias, Director of Health Information Management

Worked on a contract basis. Duties included creating reports using Business Objects Crystal Reports containing patient information and financial information. Reports included a listing of patients by admission nurse and by diagnosis code, admitted patients by admitting physician, a detail listing of employees, and a report of the number of patient-days annually by level of care and funding source. In addition, have worked on various other projects including Microsoft Access databases.

Skills

Experienced In

Windows, Linux (installation, maintenance, administration), Microsoft Office (Word, Excel, PowerPoint, Access, etc.), Business Objects Crystal Reports, Perl, PHP, Apache, Apache/Tomcat, JSP, MySQL, Java, C, C#.NET, VB 6, assembly language, web design, JavaScript, XHTML, HTML, XML, network setup/administration, VMware, satellite space-to-ground data encapsulation (commutation/decommutation), CCSDS standards

Security Clearances

Secret

Active, held since 3-Jun-2008.

Other Professional Activities

El Paso, TX

Worked in a group under the direction of Dr. Eric A. Freudenthal, UTEP, to design a new set of lesson plans for future semesters of Computer Architecture I. These lesson plans served as the base for the current curriculum used by the Computer Architecture I course at the University of Texas at El Paso.

Awards

SRA Excellence Award, \$1,000, Oct-2009

Received a special recognition award of \$1,000 for identifying, collecting, and refining user requirements and establishing a technical baseline for a telemetry archive extraction software tool.

On-the-spot Cash Award, \$500, Aug-2006

Received an on-the-spot cash award of \$500 for creating a timekeeping database for the IO Directorate.

On-the-spot Cash Award, \$250, Aug-2003

Received an on-the-spot cash award of \$250 for creating a database to manage complainant information.

On-the-spot Cash Award, \$250, Aug-2002

Received an on-the-spot cash award of \$250 for creating a web page for the White Sands Missile Range EEO Office.