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Ron Denny

Education:

Stevens Institute of Technology

Major: M.Sc. Systems Engineering

Anticipated Graduation Date: Dec 2010

University of New Mexico (UNM)

Major: B.Sc. Electrical Engineering

EE Track: Digital Systems

Graduated: May 2007

Southwestern Indian Polytechnic Institute (SIPI)

Dual Major: Associate's degrees in Electronics Technology (ET) and Semiconductor Manufacturing Technology (SMT)

Graduated: August 2001

Skills:

Circuit and Math Simulation:	Basic knowledge of Multisim, PSpice, AIM-Spice, MATLAB and VHDL
Databases:	Basic knowledge of MS Access, and SQL
Development Tools:	Basic knowledge of Eclipse SDK, MS Visual C++, MS Visual C#, Emacs, GVim, Xilinx ISE, NetBeans Java IDE, NetBeans Mobility Pack, AxIDE (68HC12), and LabVIEW.
Interactive Simulation Development Tools:	Basic knowledge of DARWARS Ambush!, Torque Game Engine, netMercs Codeweaver, and MilkShape 3D.
Requirements Management:	Basic knowledge of Vitech CORE
Programming Languages:	Basic knowledge of C++, C#, C, Assembly, Java, JavaScript, and Perl.
Web Development:	Proficient with HTML (Hand Coding and WYSIWYG) Strong knowledge of Adobe Dreamweaver Basic knowledge of CSS, Adobe Photoshop, Quanta Plus, and Aptana.

Experience:

Lockheed Martin Corporation

July 2007 to Present

Electrical Engineer Associate, Exploration and Science, Orion Project, Houston, Texas

Support of the design of the Crew Exploration Vehicle Avionics Integration Lab (CAIL) for the Orion spacecraft that is being developed for NASA's Constellation Program.

Lab Management (07/2009 to Present): Support of the development of Lab Management Sections of the CAIL design document including procedures, logging, and analysis. Supported the Exploration Development Laboratory (EDL) lab management scheduling, status, and work requests.

Flight and Test Hardware (07/2007 to 07/2009): Subsystems supported included Guidance, Navigation, and Control (GN&C), Crew Systems, Thermal Protection System (TPS), and Passive Thermal Control (PTC). Development of success criteria for subsections of GN&C including rendezvous, proximity operations, and docking (RPOD). Determined test requirements for spacecraft subsystems. Development of initial success criteria for subsections of the requirements for the GN&C T&V team. Development of sections of the CAIL requirements and design documents for Flight and Test Hardware.

Sandia National Laboratories (SNL)

July 2007

Technical Intern, Organization 6341: Cognitive and Exploratory Systems & Simulation: Adaptive Training Systems, Albuquerque, New Mexico

Accomplishments included: Developed avatar-focused vignettes using DARWARS Ambush! game engine. Vignettes were utilized for research subjects who were observed under fMRI. Used DARWARS mission editor to utilize assets and employ game logic, such as triggers. Edited game scripts to modify UI.

University of New Mexico (UNM)

May 2005 to March 2007

Lab Supervisor, Intelligent Distributed Multi-Agent Robotics Systems (IDMARS) Laboratory, Albuquerque, New Mexico

Accomplishments included: Research with microcontrollers, wireless modules (Bluetooth and Wi-Fi). Assembly and modification of LOBOT Jr. Platform robots in the IDMARS Lab. This included population of integrated circuit boards, troubleshooting robots and peripherals (i.e. wireless cards, infrared sensors, etc), subsystem testing, and modification of equipment on the robots. Developed and taught two workshops on robotics. These courses covered basic electronics, assembly of robots, and beginning Java programming for embedded devices.

Sandia National Laboratories (SNL)

August 2004 to January 2005

Technical Intern, Organization 1812: Chemical and Biological Sensing, Imaging, and Analysis, Albuquerque, New Mexico

Accomplishments included: Development of a GUI utilizing Microsoft Visual C++ .NET to improve the user interface of manipulation of data acquired from a hyperspectral image preprocessor. Integration of managed and unmanaged code. Streamlining code front-end of a console application to facilitate quicker analysis of obtained data. Reduced output file size by 50% while maintaining integrity of data. Enabled batch processing of files. "L" level government security clearance.

International Business Machines (IBM)

May 2004 to August 2004

Co-op Pre-Professional Engineer, Sony/Toshiba/IBM Design Center, IBM Microelectronics, Austin, Texas

Accomplishments included: Hardware testing of the Cell processor, a new architecture used in Sony's PlayStation 3 game console. Operation of tests to accomplish verification of chip power dissipation on first pass hardware in the lab environment. Utilization of IBM's JTAG Debugger (RISCWatch) to run various workloads. Troubleshooting and editing of test scripts. Assisted in troubleshooting automation for autonomous power readings of first pass chips in the lab.

NASA Johnson Space Center (JSC)

May 2003 to July 2003

Network Engineering Intern, Information Systems Directorate (ISD), Network Operations, Houston, Texas

Accomplishments included: Administration of the JSC wireless (Wi-Fi) network. Expanded the array of client devices available for wireless access at JSC by integrating a third-party software based LEAP authentication process for generic (Non-Cisco) 802.11b wireless adapters to securely connect with LEAP to the Cisco Secure Access Control Server. Location and identification of potential rogue access points at JSC via site surveys. Creation of client accounts and support of wireless users on site. Configuration of Cisco Aironet 350 (802.11b) access points utilizing LEAP WEP authentication via a RADIUS (ACS) server.

Additional Experience:**Los Alamos National Laboratories (LANL)**

July 2002 to August 2002

Undergraduate Tech (Safeguards and Security Group), Los Alamos, New Mexico

Intel Corporation

October 2000 to September 2001, and May 1999 to May 2000

Manufacturing Technical Operations (SORT 11), Rio Rancho, New Mexico

Lucent Technologies

June 2000 to August 2000

Technical Associate/ Intern (Wireless Division), Naperville, Illinois

Recent Volunteer Experience:**Comp-U-Dopt**

May 2010 to Present

Activities Include: Assist with refurbishing of computers and installation of EdUbuntu Linux on computers for donation to children in underserved communities in Houston, TX