

E-mail: ron@turbokinetic.com

Ron Denny

<http://turbokinetic.com/projects>

Education:

University of New Mexico (UNM), Albuquerque, New Mexico

Graduated: May 2007

Major: B.Sc. Electrical Engineering EE Track: Digital Systems

Southwestern Indian Polytechnic Institute (SIPI), Albuquerque, New Mexico

Graduated: August 2001

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

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.
Game Development:	Basic knowledge of DARWARS Ambush!, Torque Game Engine, netMercs Codeweaver, and MilkShape 3D.
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 Macromedia Dreamweaver Basic knowledge of CSS, Adobe Photoshop, Quanta Plus, and Aptana.

Engineering Experience:

Lockheed Martin Corporation

July 2007 to Present

Electrical Engineer Assoc., Mission Systems, Orion Project, Crew Exploration Vehicle Aeronautics Integration Laboratory (CAIL), Houston, Texas

Accomplishments include: Support of the development of sections of the Orion spacecraft that is being developed for NASA. Determine test requirements for spacecraft subsystems.

Development of sections of the CAIL design document.

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 scenarios using DARWARS Ambush! game engine. 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 specifically 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 confidential architecture optimized for the broadband network, developed by the 3 companies in the STI design center. Specific responsibilities were 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.

Los Alamos National Laboratories (LANL)

July 2002 to August 2002

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

Accomplishments included: Configuration of computer systems utilized in The Nuclear Materials Safeguards and Security Upgrade Project (NMSSUP). This included Windows 2000 servers and workstations, a Linux-based server, and a web-based documentation server. Completed installation and setup of a network-based software configuration management system. Setup of standalone PC's running in-house designed software.

Intel Corporation

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

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

Accomplishments included: Worked with a team in a clean-room environment. Transfer and Processing of Lots (a 25-unit measure of semiconductor wafers). Inking of low-quality die on wafers using the Off-Line Ink machines (Horizon EG-probers). Sort, examine, and prepare for shipping, Intel's 8-inch silicon wafers of Flash and Pentium product. Safety team member.

Lucent Technologies

June 2000 to August 2000

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

Accomplishments included: Developed a memory monitor tool in C on the HP-UX platform. The memory monitor tool tracks the memory use of AutoPlex Software in the AP system and notes substantial memory growth to an error log. The program was designated to be included in the Lucent Flexent AP package that is sent to field sites.

Selected Presentations:

- "LAN of Collaborative Robots with Human Interface" at the University of New Mexico. May 2007
- "Interface for Multi-Sensor Data Fusion Network" at IDMARS Laboratories. July 2006.
- "Hyperspectral Image Spike Removal Program" at Sandia National Laboratories. November 2004.
- "JSC Wireless Network" at NASA Johnson Space Center. June 2003.