## NOAH R. WARDRIP

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OBJECTIVE	Seeking a challenging full-time computer, software, or electrical engineering position requiring superior problem solving skills and with a focus on embedded systems design and implementation
EDUCATION	<b>B.S., Computer Engineering, June 2002</b> University of California, San Diego, Jacobs School of Engineering Overall GPA: 3.89/4.00
COURSE WORK	<ul> <li>Computer and microprocessor design and architecture, with a focus on RISC architectures</li> <li>Design and implementation of an 8-bit MIPS-like microprocessor using XILINX and an associated instruction set architecture used to run custom programs</li> <li>Implementation of a TCP offload processor using Verilog HDL, ModelSim VSIM, and LeonardoSpectrum</li> <li>Principles and theory of compiler design, with focus on an object-oriented design approach</li> <li>Design and implementation of a compiler for a Pascal-like language (Oberon-2) over two quarter classes</li> <li>Data structures in Java and C including implementation of lists, hash tables, heaps, and balanced trees</li> <li>Operating system principles, focusing on concurrency, memory management, file systems, and security</li> <li>Implementation of data using OpenGL for 2D and 3D graphics displays and animations</li> <li>Analog and digital signal processing, focusing on convolution, sampling, Fourier analysis, and filter design</li> <li>Digital circuit components and design, with a focus on MOSFET characteristics and logic gate creation</li> <li>Active circuit design using analytical methods and PSPICE</li> </ul>
TECHNICAL SKILLS AND QUALIFICATIONS	<ul> <li>Experienced with Object-Oriented programming in Java, programming in C, SPARC Assembly, HTML</li> <li>Proficient using PSPICE, MATLAB, XILINX 2.1, Protel99, JBuilder 6.0, and Visual C++ 6.0</li> <li>Experienced with Windows 98, Me, NT, 2000, XP, UNIX, and Mac OS</li> <li>Comfortable operating lab equipment such as the oscilloscope, function generator, and soldering iron</li> <li>Exceptional problem solving and analytical skills; Resourceful when problems are difficult to solve</li> <li>Detail-oriented, efficient, and disciplined work habits; Strong commitment and determination to finish projects</li> </ul>
RELEVANT WORK EXPERIENCE	<ul> <li>Computer Engineer Intern, Xsilogy, Inc.</li> <li>Sorrento Valley, CA. June 2001 to Present <ul> <li>Fully designed and created hardware and software for an automated programming and testing system to be used during different production stages of a wireless sensor interface device</li> <li>Revised, wrote, and debugged firmware written in C for embedded PIC micro-controllers</li> <li>Became familiar with serial and wireless data transmission protocols for Axonn digital radios</li> <li>Updated and improved hardware and software for an existing product's automated testing system</li> <li>Designed two printed circuit boards containing radio support, LED, and Reed switch circuitry.</li> <li>Performed surface mount and through-hole soldering for prototyping and testing of circuit boards</li> <li>Established testing protocols and created custom applications for tests on wireless sensor interface devices</li> <li>Learned and adapted quickly to assist engineers with several existing projects</li> </ul> </li> </ul>
	<ul> <li>Java Programming Lab Tutor, UC San Diego Computer Science and Engineering Department La Jolla, CA January 2000 to June 2000, April 2001 to June 2001</li> <li>Instructed and explained Java programming techniques to students in a clear and professional manner, becoming well acquainted with foundational concepts object-oriented software design</li> <li>Graded students' programming assignments through interviews with fairness and responsibility</li> <li>Worked independently and reliably by never skipping unsupervised, assigned hours</li> </ul>
	<ul> <li>Desktop Support Assistant, UC Davis Regional Primate Research Center</li> <li>Davis, CA Summer 1999 and Summer 2000</li> <li>Designed and implemented a custom Java application to analyze and archive temperature and humidity sensor data, notifying the staff if there is a problem</li> <li>Diagnosed, repaired, and maintained 200+ Macintosh and Windows NT computers and 20+ printers; conducted business professionally and courteously with the employees</li> </ul>
AWARDS RECEIVED	<ul> <li>Madge E. Lawhead Scholarship Recipient for academic achievement at UCSD, July 2000</li> <li>Provost Honors for 10 quarters at UCSD</li> <li>Outstanding Academic Achievement (4.0 unweighted, 4.23 weighted High School GPA), June 1998</li> <li>Earned third place in the state on the Academic Decathlon State Competition Mathematics exam, April 1998</li> </ul>
ADDITIONAL EXPERIENCES	• Volunteered to go on a Campus Crusade for Christ summer project for 2 months during the summer of 2000 to help the homeless, needy, and children of inner city LA