

# DARRELL ADAM ROSS

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## EDUCATION

<b>Humboldt State University</b>	Masters of Science, Environmental Systems	May 2009
<b>University of California, Santa Cruz</b>	Bachelor of Science, Computer Engineering	June 2002

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## ENGINEERING PROJECTS

- (1998) Built a 3D engine Java applet to demonstrate RDNA. <http://www.eukota.com/STARtech/>
  - (2000) Designed and implemented a basic ALU using Xilinx FPGAs.
  - (2002) Configured and produced two autonomous tag-playing bots using the Rabbit2300, IR, and I2C.
  - (2002) Invented a Gomoku player using gates and FSMs on four Xilinx FPGAs
  - (2005) Designed and installed a photovoltaic off-grid system for a horse barn: <http://www.eukota.com/pvbarn/>
  - (2009) Renewable Energy Model of Humboldt County <http://eukota.com/index.php/projects/>
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## EMPLOYMENT EXPERIENCE

*Technician* **Humboldt Internet**, Arcata, California August 2007–Present  
Provide phone tech support for Humboldt Internet customers, repair computers including OS reinstalls, hardware troubleshooting, repair, and replacement. Minor billing department duties.

*Teaching Associate* **Humboldt State University**, Arcata, California August 2004–December 2006  
Teach Math 44, Intermediate Algebra, for classes of 25 to 35 students. Tutor all lower division math classes in a lab setting. Maintained HSU Math Dept. Website 2004-2005. Minor tech support for the Math Dept.

*Assistant, Test Electronics*, Watsonville, California September 2003–August 2004  
Fabricated bed-of-nails test fixtures; machined sheet metal enclosures; followed complex schematics and pin-outs to wire wrap and solder circuit boards; assembled fixtures.

*Residential Computer Consultant, ResNet, University of California*, Santa Cruz September–June 1999–2000  
Provided technical support for Cowell College students on both Mac and PC computers; installed hardware and software; solved a wide variety of problems ranging from viruses to faulty hardware.

*Systems Technician Intern, MIS Dept., Organic, Inc.*, San Francisco, California June 2000–September 2000  
Rebuilt 30 Macs (complete hardware and software overhauls) for donation to community non-profits; configured workstations for creative department with graphic intensive software; offered desktop and laptop technical support for all departments of large technical company using Macs and PCs.

*Network & Desktop Hardware Intern, Real Goods Trading Corp.*, Ukiah, California June 1997–September 1997  
Installed 25 pair and Cat-5 cable with Krone 110 patch-panels and 66-blocks for 200 data ports; built desktops from case up and installed full software suite for call center and network functions

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## LEADERSHIP

Cowell College Senate Member and Student Union Assembly Representative	UCSC, June 1999–September 2001
Equipment Manager, Marching Lumberjacks	HSU, January 2006–December 2006
Renewable Energy Student Union	HSU, January 2007–Present
Docent, Schatz Energy Research Center	HSU, September 2007–Present

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## SKILLS AND INTERESTS

Operating Systems: OSX, Windows XP, Windows 2000, Ubuntu  
Programming Languages and Tools: C, Java, PHP, CSS, HTML, and Apache  
Activities: Playing musical instruments, assembling complex origami, outdoor activities  
Licenses: CA Drivers License, Defensive Drivers Card  
Member IEEE. Willing to relocate.