

Darrell Ross

PO Box 615, Boonville, California 95415 • (707)-496-8510 • eukota@gmail.com • <http://www.eukota.com>

Objectives

A position where I can continue to hone my development, mathematical modeling, and power engineering skills simultaneously.

Summary of Qualifications

I am a creative and innovative software developer with three years experience developing and maintaining a large codebase. With acute attention to detail and excellent listening skills, I am versatile at customer communication, team interaction, and adapting to work with those around me. My advanced math degree enhances my development ability enabling me to learn complex concepts at high speed. I am dedicated and take pride in my work.

Professional Experience

Milsoft Utility Solutions • Developer • Engineering Analysis Team January 2011 to Present

- Implementation of new features from design using UML 2.0 in Enterprise Architect creating Package, Use Case, Activity, Sequence, Class, and DB Schema diagrams, designing report templates to generate management and development-centric reports, and using Balsamiq to create GUI mockups.
- Direct two developers in the continued maintenance and improvement of the power engineering analysis code base.
- Plan long-term architectural changes
- Migrated the 10+ year old engineering analysis codebase from messy disconnected libraries to clean OOP using STL for containers and extracting all GUIs.
- Attend IEEE conferences and webinars, meet with customers, and maintain quality control on designs.
- Spearheaded the design of a four year-old feature request, drawing upon my relationships built with Support and Development to design and implement a prototype in three weeks time, five months faster than the former estimate. Prototype was a hit at our User's Conference one week later. Former attempts had been plagued by too much scope-creep on the part of Management and Development.

Milsoft Utility Solutions • Programmer • Development Team January 2010 to December 2010

- Brokered a deal between the Development and Support departments using my respectful yet persistent communication skills to improve release schedules while maintaining quality support. Utilized version control tagging and branching to maintain a stable branch and allow quicker fixes to customers. This removed Support's fear of allowing releases out.
- Adjusted our old power engineering analysis modes to take advantage of the our Enterprise Project Management system enabling customers to save analysis runs and share results across through the Circuit Model Server for the first time.
- Provided custom Lua scripts for customers and internal database teams while continuing to improve our Lua Engine.

Milsoft Utility Solutions • Database Converter • Support Team July 2009 to December 2009

- Converted customer data into Milsoft models using a variety of in-house tools and SQL, Ruby, and Lua scripting languages.
- Learned the database schema for our software in short order, then surpassed the level of efficiency previously reached by anyone on the team. I saw that our boss was obviously overworked and offered to talk directly to customers thereby shortening my communication chain. Being a skilled communicator, this allowed me to finish conversions in half the time it took others.
- Although my time in Database Conversions was supposed to be a two month primer before entering development, the VP of Support kept asking Management if he could keep me longer, holding on to me for six months. During that time, I managed expectations and delivered my projects on time. I spoke directly with customers via telephone, email, and even led GoTo Meetings, a task usually performed only by Sales or Support or my boss. I upheld high support standards of the company by meeting customer demands without making promises I could not keep.

Humboldt Internet • Technical Support and Repair Technician

August 2007 to May 2009

- Provided phone and on-site technical support for 5000 DSL and dial-up internet customers.
- Maintained a computer lab and storefront with one other person while taking turns providing on-site computer maintenance and repair for customers.
- Opened and closed the office, balanced the books, and dropped off deposits at the bank.

Humboldt State University • Teaching Associate • Math Department August 2004 to December 2006

- Taught Algebra and Pre-calculus to classes of thirty to forty students including writing syllabi, lecturing, assigning and grading homework and tests, and completing final grades for all students.
- Tutored all levels of math students from Algebra up through Calculus and beyond at the Math Tutoring Lab.
- Kept office hours every week to assist students with questions regarding the classes I taught.
- Completed a full load of graduate level courses each term in addition to teaching.

Skills

- Embarcadero RAD Studio
- Lua
- Subversion
- Microsoft Visual Studio
- Enterprise Architect
- Mercurial
- C++
- MathCAD
- LaTeX
- SQL
- UML 2.0
- Ruby
- Matlab

Education

- MS in Mathematical Modeling, June 2009, Humboldt State University
A Distributed Renewable Energy System Meeting 100% of Electricity Demand in Humboldt County: A Feasibility Study - Full thesis text available at HSU Digital Scholar: <http://hdl.handle.net/2148/503>
- BS in Computer Engineering, June 2002, University of California, Santa Cruz

Associations

- IEEE Member since 2000
- NRECA Member since 2009