

KAREN SUDA-CEDERQUIST

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EDUCATION

BS in Mechanical Engineering: *University of California at Santa Barbara*

Graduation: June 2006

Web Programming Certificate: *City College of San Francisco*

Completed: June 2012

Designed, built and published interactive web pages using various multimedia applications. Solved problems using object-oriented fundamentals that are essential for adapting to changes in technology. Passion for database design and implementation combined with scripting languages that allow for user interactivity.

- Developed server-side, cross-platform, PHP scripts that implement dynamic web pages using MySQL databases
- Used CSS to design visual appealing web applications that follow basic design fundamentals

EXPERIENCE

Development Partner: *Cederquist Farms; Madera, California*

August 2011 – October 2012

Handled a variety of managerial responsibilities to ensure efficient operation and prevent production lags. Coordinated with contractors, supervised employees, provided computer/software support, and administered supplies.

- Designed custom irrigation system and managed installation of 100 acre commercial agriculture pistachio farm which resulted in 50% cost savings of \$20K
- Managed 3 full time employees and up to 10 part-time employees, responsible for 5 ranches totaling 600 acres

Research & Development Engineer: *Simpson Strong-Tie; Pleasanton, California*

October 2006 – July 2011

Developed products through entire lifecycle - from product conception, design, and fabrication to customer installation. Specialized in quality and process R&D, product improvement, and optimization. Focused on delivering quality products that satisfy customer requirements and constraints.

- Resolved 60 customer complaints by investigating root cause and facilitating corrective action
- Developed customer complaint database to track and identify trends
- Performed failure analysis investigation which led to the avoidance of a \$5M (potential) lawsuit
- Analyzed data to quantify potential liability and determine disposition of product
- Designed automated inspection software and procedures that resulted in 10% time savings at 20 locations
- Streamlined engineering practices of acquired companies, successfully integrated 2 companies and 30K products
- Actively managed concurrent projects (8-10 per week) and prioritized projects efficiently
- Transitioned 32 products from R&D to manufacturing with 100% of quality processes delivered on time and on budget

Aerospace Engineer Intern: *ATK Alliant Techsystems; Goleta, California*

October 2005 – June 2006

Developed database of technical documents to improve documentation. Collaborated with users to determine essential database functionality. Designed test methods to determine mechanical properties of solar panels and analyzed the results to improve design.

- Database created on time and on budget
- Database used as beta launch of Microsoft SharePoint. Successful implementation and training lead to full release

Process and Quality Engineer Intern: *Berry Tubed Products; Oxnard, California*

February 2005 – September 2005

Implemented waste reduction methods and continually evaluated progress of methods. Tested product and analyzed results to reset manufacturing specifications to optimum settings. Assembled employee focus group to determine methods to reduce waste.

- Received award for study that identified manufacturing defects and material waste
- Processes implemented to reduce waste resulted in 4% waste reduction

SOFTWARE AND DEVELOPMENT TOOLS

Languages: MySQL, PHP, Java, JavaScript, XHTML/HTML, CSS, ActionScript

Software Programs: Word, Excel, PowerPoint, Access, Outlook, AutoCAD, Photoshop, Illustrator, Flash, Dreamweaver, Pax-it Image Database, Statagraphics Plus, NWA Quality Analyst

Platforms: Mac OSX and Windows