

Daniel Clark

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OBJECTIVE Mechanical engineering position in transportation systems

EDUCATION BSME San Jose State University 2010

SKILLS Fabrication/prototyping, TIG welding; CAD systems such as Pro-E, SolidWorks, Unigraphics NX5; advanced knowledge of Unix and Windows systems. Experienced in administering Exchange and Outlook, DNS, DHCP, NFS, Samba, MySQL, Apache.

EMPLOYMENT

Systems Analyst (7/05-1/10)

Mindsorce Software, Mountain View, CA

Responsible for day to day user support and special projects for internal IT and external customers via help-desk system. Supported end users in a Microsoft environment and server assets which ran Solaris, FreeBSD, Applogic, and Linux. Configured and administered networks, switches, servers, and workstations, solving a variety of complicated problems.

Built and maintained server and desktop hardware down to the board level. Performed backups, data recovery, disaster recovery, and remote diagnosis of end-user systems. Maintained battery backups for data center. Designed and built several websites for internal projects and client sites. Programmed dynamic web applications using PHP, Javascript, CSS, AJAX and MySQL databases. Supported internal CRM applications and created custom SQL reports.

Driver (1/05-6/05)

Brake Supply Plus, Santa Cruz, CA

Helped customers select catalog products, delivered parts, completed daily and weekly paperwork, and performed parts inventory for this distributor.

PROJECTS

Yak-52 Wingtip Retrofit

San Jose State University

Designed and tested wing extension to achieve lower drag for the Yak-50/2 aerobatic trainer aircraft. Scaled model was constructed from fiberglass and tested in a wind tunnel at NASA Ames Moffat Field. Testing validated CFD simulations for drag. Simplified models were created for using FEA stress analysis. A Full-sized prototype has been molded and was delivered to the client for glassing and installation.

Twin-Engine Sportscar

Responding to a challenge from my mentor, I integrated a front subframe and driveline into the rear body of a 1988 Civic Wagon. My objective was to double the power to the wheels while maintaining the car's drivability, safety, appearance, and reliability.

Designed, tested and fabricated cooling systems, fuel/emissions systems, and driver controls. Fabricated and calibrated coolant flow rate meter to measure net flow in cooling systems. Built independent twin-shifting mechanism and dual control throttle mechanism system to change the relative load/torque on both axles. Cooling the rear engine was particularly challenging.



Twin Engine Honda – Safety, Reliability, Performance

INTERESTS Efficient transportation is a key concern for the future. We have reached the *peak oil event* and are adversely affecting the global environment. I have independently studied conventional and alternative transportation systems in order to understand the larger requirements of society.

Our economic well-being depends on moving people and cargo efficiently. Change in the way we think about and use transportation is inevitable. I plan to be part of this change as it happens.