

Daniel Lyle Quock

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Education **California Polytechnic State University, San Luis Obispo, California**
Master of Science Degree in Aerospace Engineering **June 2001**
Bachelor of Science Degree in Aerospace Engineering **June 2001**
Major and Graduate GPA **3.30**
Dean's List Recipient

Harvey Mudd College, Claremont, California 1991 – 1993

Master's Thesis Developing a web-based program in Java that provides various spacecraft attitude dynamics and control scenarios. Solves equations of motion through a Runge-Kutta 4th-order routine and outputs graphs and a 3D animation for visualization.

Course Electives Supersonic and Hypersonic Aerodynamics, Orbital Mechanics I & II, Spacecraft Dynamics & Control, Fundamentals of Computer Science I & II (C++), Discrete Structures, Data Structures, Introduction to Computer Graphics, Computer Animation

Computer Skills UNIX, Basic, FORTRAN, Pascal, C, C++, Java, Java3D, Matlab, Pro/Engineer, CATIA, Satellite Tool Kit, MS Office, HTML, Maple, CC, Adobe Photoshop, Windows 98, 95, NT and DOS. Computer assembly and troubleshooting.

Papers Quock, D. and Puig-Suari, J., "Web-Based Tools for Spacecraft Attitude Dynamics and Control Simulation", 11th AAS/AIAA Space Flight Mechanics Meeting, AAS Paper 01-176, Santa Barbara, CA. February 11-15, 2001

Projects **Spacecraft Design, CalPoly, San Luis Obispo.** 1998-1999. Presentation to industry a paper design of a small, commercial satellite bus. Worked on launcher integration as a secondary payload. Was power subsystem lead and designed solar panels, battery and power board layouts.
Aerospace Engineering Department, CalPoly, San Luis Obispo. 1999-2000. Wrote a tutorial as an introduction for students using Satellite Tool Kit.

Recent Employment **Aerospace Engineering Dept, CalPoly, San Luis Obispo, CA.** July 1999 to June 2000. Working as a teacher's assistant for the Spacecraft Design class. Job duties include computer lab administration and helping design classroom tools for future students.
Pacific English Language Institute, San Luis Obispo, CA. August 1997 to September 1998. Worked as the student advisor for exchange students. Job duties include pickup at the airport, answering questions for students, academic advising, and the planning and leading of group activities.
Stenner Glen, San Luis Obispo, CA. September 1996 to present. Working as an academic tutor and computer lab monitor.
Software Outlet/Computer Outlet, San Luis Obispo, CA. March 1996 to October 1996 and June 1997 to September 1997. Worked as a sales clerk and Assistant Manager. Job duties included sales, opening and closing the store, technical support, and computer assembly.
Wherehouse Entertainment Inc., Saratoga, CA and San Jose, CA. November 1993 to September 1995. Worked as a sales associate and Assistant Manager. Job duties included sales, management of personnel, hiring, and opening and closing the store.

Honors and Activities Scholarship, Lockheed Martin. Development of web-based attitude dynamics and control simulations
Member, Academy of Model Aeronautics, 1999-2000
Member, American Institute of Aeronautics and Astronautics, 1999-2000
Secretary Claremont Chapter of SEDS (Students for the Exploration and Development of Space), 1991-93
National Merit Distinguished Mention, Robert Louis Stevenson High School, 1991.
Monterey Bay Aquarium, 1987-1993, 500 volunteer hours.