

# TIMOTHY WATSON-FARRELL

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## SYSTEM ENGINEER, AEROSPACE / INTEGRATION

### *Most Outstanding Technical Achievement Recipient - San Francisco State Aerospace Graduate*

Resourceful, focused engineer with demonstrated ability to deliver complex systems engineering, design, and implementation projects, with ranking for top technical achievement. Team leader and technical mentor with passion for challenging projects requiring creative engineering capabilities. Able to relocate. *Competencies in:*

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|--|--|--|
| <input type="checkbox"/> Statics                       | <input type="checkbox"/> Structures & Materials  | <input type="checkbox"/> Digital Logic     |
| <input type="checkbox"/> Thermodynamics & Aerodynamics | <input type="checkbox"/> Dynamics & Systems      | <input type="checkbox"/> Circuits          |
| <input type="checkbox"/> Vehicle Design & Performance  | <input type="checkbox"/> Computers as Components | <input type="checkbox"/> Orbital Mechanics |

Technical Skills: C/C++, HTML, MATLAB, VB, Solid Works, AutoCad, LabVIEW, Pspice, Altium, MS Office

## EDUCATION

**Bachelor of Science in Aerospace Engineering - Additional Electrical & Computer Engineering Emphasis**  
UNIVERSITY OF CALIFORNIA, San Francisco, California ♦ December 2009

**Selected for Undergraduate Curriculum Improvement Team, 2006-2008** (*Based on dedication and focus*)

**Laboratory Assistant, Aerospace Department ♦ Tutor, Mathematics & Physics**

## RELEVANT EXPERIENCE

**LEAD SYSTEM ENGINEER - Near Full Time, Davidston Project, University of California** 2006 – 2008  
Served on management team delivering autonomous robot submarine, FLDMOD, *with top honors for college's first-ever entry* to global Association for Unmanned Vehicle Systems International (AUVSI) Autonomous Underwater Vehicle (Navy) competition in San Diego, plus entry in AIAA Region V contest. Worked in collaboration with 10-person team to design, configure, and formally present new system.

- **Won Best New Entry**, and placed 18<sup>th</sup> out of 27 against Ph.D. students from up to 7 countries.
- Personally received **Most Outstanding Individual Technical Achievement and Best Overall/Most Complex Design awards**, as voted by peers and Professional Oversight Board.
- Created new subsystems, with additional work to complete integration, testing, and coding using compact vision system and compactRIO created by National Instruments.
- Conceptualized and produced custom electrical and power supply systems; worked with 6 different sensors to measure altitude, and connected submarine to image recognition system.

**IT TRAINER / COMPUTER REPAIR, University of California IT Department** 2006 – 2008  
Conducted classroom lectures for training on new Office, Windows, Adobe, and Macintosh software to faculty, staff, and students. Resolved technical repairs for up to 300+ computers – logging requests, running diagnostics, and handling customer service at on-campus computer facility.

**STUDENT ENGINEER, JRAD-X Satellite, Laboratory for Atmosphere & Space Physics** 2007  
Coded self-diagnostic firmware software for launch of NKCC satellite during paid internship.

**ROVER TEAM MEMBER, NASA - RoverJRT Project, California Space Grant Consortium** 2005  
Participated in project to design, build, test, and launch autonomous rover.

## PROFESSIONAL AFFILIATIONS

American Institute of Aeronautics and Astronautics

I was first approached to work on Timothy's résumé by his mother, who was frustrated that her son, a truly brilliant engineering graduate, had not yet landed a role that fit his advanced skills.

After talking with him and uncovering brand elements that included high-profile engineering project responsibilities in the aerospace industry – including team leadership positions for which he had won accolades – I set up the résumé to highlight the overwhelming feedback that he had received during his college career.

I also discovered that many of his assignments and projects were based on professor recommendations, and that he had earned a reputation for superior work ethic and a tireless level of engineering focus. Given that he had also broken records for team engineering project success, I added much of this information in lieu of the traditional work descriptions under his project experience.

Blue headings and text were also used to set off portions of the résumé that contained information on his global competition victories and analytical capabilities.

The final payback came with a call from his aunt, who explained that his parents were ecstatic about receiving a résumé that truly reflected their son's high level of achievement and intellectual success.