TIMOTHY WATSON-FARRELL

3355 South Washington Street #3, San Francisco, California 80355 · Cell: 251-555-5555 · tjfarrell@gmail.com

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:*

☐ Statics	☐ Structures & Materials	☐ Digital Logic
☐ Thermodynamics & Aerodynamics	☐ Dynamics & Systems	☐ Circuits
☐ Vehicle Design & Performance	☐ Computers as Components	☐ 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 18th 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