

# Frank Joseph Falcone III

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## Contact Information

2220 Camino De La Reina #113  
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**OBJECTIVE:** To obtain employment in the field of alternative fuels and/or hybrid vehicle technology design and development.

## EDUCATION

### **Masters of Science, Mechanical Engineering (Fall 2007)**

San Diego State University; Present GPA 3.34

Specialization and thesis: Battery heavy plug-in/charge sustaining hybrid vehicle control systems design using Matlab Simulink and Mototron hardware.

### **Bachelor of Science, Mechanical Engineering (Spring 2005)**

San Diego State University, Specialization: Machine design, vehicle controls

## REFERENCES

**Dr. James Burns**, ChallengeX team advisor, 619-933-6058

**Titleist Golf Clubs**, (Acushnet Company), Managers: Peter Gilbert and Charles Golden, 760-929-0377

**Asymptotic Technologies** (Asymtek) manager: Alan R. Lewis. 760-431-1919

## WORK EXPERIENCE

**ChallengeX Team Lead** September 2004 to present.

Responsibilities:

- Team recruitment and management
  - Assess skills, train, manage projects, facilitate labor, procure tools and equipment, travel planning
- Systems ground level research for hybrid and alternative vehicle design considering technologies such as gasoline, diesel, hydrogen, and electric propulsion
- Systems level design and validation using CAD and physics modeling tools such as Solidworks, Pro Engineer, and Matlab Simulink
- Controls prototyping and implementation using Matlab Simulink and Mototron hardware
- Technical writing and proofing
- Outreach planning, execution, and public speaking
- Machine design and fabrication

**Partner, Co Owner, San Diego Off Road Innovations LLC**

November 2003 to present.

Responsibilities:

- Product design, marketing, technical support, shipping, receiving, etc...
- All aspects of running a small engineering business

**R&D Technician**, Acushnet Company (Titleist Golf) June 2002 - August 2004. Carlsbad, Ca

Responsibilities:

- Machine Design. Main project: Firing pin mechanism for a no-spin golf ball cannon
- Product testing: Calculate COR of new model drivers

- Materials database creation and research

**Dispensing Lab Technician**, Asymtek 1995-2001 Carlsbad, CA

- Served as liaison between R&D and production.
  - Designed production line test processes, wrote procedures, trained assemblers, monitored progress
- Managed warranty claims, researched causes of failure, prescribed and/or implemented corrective actions
- Designed multi-factorial experiments and performed product life testing
- Supported sales and customer service by programming robots to perform complex patterns.
- Tradeshow floor sales support of equipment through application programming and customer interaction.
- Performed off-site installation of new technologies at beta site customer facilities

**Technical writer/Graphics Illustrator**, Asymtek 1994-95 Carlsbad Ca

- Created a production documentation department which defined and implemented documentation and process controls for two production lines
- Team lead for 3 person work group
- Illustrated all assembly steps

**Assembler**, Asymtek 1993-94

- Electro-mechanical assembly, procedure writing, new employee training
- Wiring harness assembly, documentation, and development