

Franco Morelli

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OBJECTIVE

Seeking full time employment that will lead to opportunities in energy generation, energy conservation and efficiency, reliability and maintenance, waste stream recovery.

EDUCATION

Texas A&M University, College Station, TX

- ✓ Master of Science in Mechanical Engineering, GPA: 3.1 Dec 2014
 - Thesis: Electrical Demand Analysis Tool Suite for Industrial Energy Audits.
- ✓ Bachelor of Science in Mechanical Engineering Dec 2011
 - Research: Modeling Ocean Turbulence Induced via Wind Shear.
 - Thesis: Non-linear Magnetohydrodynamics in Tokamak Reactors and it's Effect on Plasma Density.
 - Capstone Design: Mobile Wind Driven Power Generator.
Space Exploration Vehicle; Propulsion and Structural.

University of California at Irvine, Irvine, CA

- ✓ Bachelor of Arts in English, Philosophy Jun 2003
- ✓ Education Minor

RELEVANT WORK EXPERIENCE

Industrial Assessment Center, Texas A&M University, College Station, TX

- Graduate Research Assistant Jan 2012 - Present
- ✓ Performed ASHRAE Level 1 Energy Audits. Analyzed state of energy consumption for manufacturing and commercial industries; oil and gas, food, medicine and education.
 - ✓ Recommended energy reduction measures and optimization techniques
Total savings recommended from 60K to 120K per year;
 - ✓ Benchmarked state of energy consumption in religious facilities.

MTU Detroit Diesel, Stafford, TX

- Internship Summer 2010
- ✓ Composed hydraulic fracture applications feasibility study on electric drive systems.
 - ✓ Over sought parameter specifications for engine/transmission component integration.
 - ✓ Evaluated engine test data.
 - ✓ Assisted in update and release of engine C.A.D. drawings.
 - ✓ Reviewed and assisted in the composition of engine applications and installation manual.

SKILLS

Computer Skills: AutoCAD, Programming in C, Matlab, Solidworks, LabVIEW, EQuest, Energy Plus, MS Office

Language Skills: Castilian Spanish

Certification: Energy Manager in Training (EMIT) [Passed CEM Exam] Summer 2013

Training: Steam System Basics (Spirax Sarco) Spring 2014

Relevant Coursework: Applications of Energy Management, Applied Solar Energy, Data Mining, Energy Plus
Cogeneration Systems

WORK EXPERIENCE

Aldine and Cypress Fairbanks Independent School Districts, Houston, TX 2006-2009

(Taught in diverse, urban setting; primary population consisted of low socio-economic status)

11th grade English Teacher, American Literature; Eisenhower Senior High School

- ✓ Primary communicator between Spanish speaking parents and administration
- ✓ Coached advanced level communication course for adult ESL students

9th grade English as a Second Language Teacher; MacArthur Ninth Grade Center

9th grade English Teacher, Eisenhower Ninth Grade Center

- ✓ Implemented advanced level mathematics program

ACTIVITIES

Gas Turbine Society; American Society of Mechanical Engineers; American Society for Heating, Refrigeration and Air Conditioning Engineers, Association of Energy Engineers