

Francesca Luciana Martino

P.O. Box #140542, Daytona Beach, FL 32114
727.458.9438 Francesca.Martino@erau.edu

OBJECTIVE

Seeking challenging aerospace, systems, or mechanical engineering entry level position, utilizing strong computer skills, as well as leadership, communication and teamwork skills.

EDUCATION

Embry-Riddle Aeronautical University (ERAU)

Bachelor of Science Aerospace Engineering, Bachelor of Arts in Aerospace Studies

Minor: Mathematics, Computer Science, Psychology, High Performance Vehicles

GPA: 3.134/4.0 175 credits completed

Coursework: Statics, Fluids, Dynamics, Solids, Software Programming, Engineering Drafting, 3D-modeling/CAD based CATIA v.5, Aerodynamics, Experimental Aerodynamics, Electrical Engineering, Spacecraft Design

Daytona Beach, FL

August 2010

PROJECT EXPERIENCE

Electrical Engineering – Worked in a group of 3 constructing circuits, which included voltage sources, capacitors, insulators, and resistors. Their values were measured and calculated to prove different theorems pertaining to the lab.

Rocket Design – Worked in a team of 7 to completely design and build a rocket. Specialized in the recovery system and preflight tests to ensure working order. Itemized budget for use of \$1000 grant. Progress was formally presented to the professor and classmates.

Experimental Aerodynamics – Performed experiments to test the design of the wind tunnel and to study airflow around objects. Measured and plotted data was used to verify what was being tested. Labs were detailed in a full lab report format.

Computational Fluid Dynamics – Calculated the aerodynamic drag in different wind directional scenarios on a model car by using CFD programs GridGen and FLUENT.

Software Engineering Development – Maintained the team leader status during this project. Worked with the group to keep morale high work productive. Set and updated status of weekly goals to stay on task in finishing the assignment.

SKILLS

Computer: C, Java, VBA, XMPie, CAD-based CATIA v5, Pro-Engineer, HTML, MatLab, Microsoft Word/Excel/PowerPoint/Access, FLUENT, GAMBIT, GridGen

Mechanical: Maintain and repair motorcycle, Perform regular maintenance on car

Electrical: AC/DC circuits, Breadboards, Studied complex circuitry including transistors, diodes, op-amps

Materials: Carbon Fiber, Aluminum, Paraffin, Sheet Metal, Fiberglass

Communication: Technical Report Writing, Presentations, Public Speaking - Toastmasters

Other: Motorcycle Endorsement, Piano, Typing, Organizational strategies, SCUBA certification, CPR/First Aid Certified, LEAN awareness training

LEADERSHIP & ACTIVITIES

Student Finance Board, ERAU Student Government Association

May 2006 – August 2008

- Delegated all SGA funds to the clubs, organizations, and divisions in the school

Sigma Sigma Sigma – Philanthropy Chair - Fall 2005, Charter member

- Accredited with Honors for Philanthropy – 2007

- Organized many fundraisers and activities benefiting hospitals with children's center

Varsity Cross Country & Track & Field – competing in the NAIA, Fall 2004 – Fall 2007

Awards: ERAU Dean's List; Girl Scout Gold Award 2002

INTERNSHIP

Mechanical Design Engineer, United Space Alliance Kennedy Space Center, FL

January 2009 – Present

- Created and Validated Models in Pro-Engineer
- Maintained Lead Engineer position on several significant design changes
- Supported significant changes that affected the Space Shuttles Solid Rocket Booster flight hardware

Systems Engineer, The Boeing Company

Mesa, AZ

June – December 2008

- Automated and created databases to produce charts and Excel spreadsheets using Microsoft Access
- Downloaded current flight data from Apache helicopters to assist the department

EMPLOYMENT

Sales Representative, The Helmet Shop

Daytona Beach, FL

May 2007 – June 2008

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- Completed sales transactions, took phone orders, processed web orders, created purchase orders
- Kept updated in all the variety of helmets and other motorcycle apparel and accessories

Creative Programmer, Direct Mail Express Daytona Beach, FL

May – August 2007

- Programmed mass mailings using XMPie for various Companies
- Created proofs to be used in finalizing the project
- Used MS Access to create databases for programming