Madhumitha Ramesh

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SUMMARY

Passionate aerospace graduate actively seeking full-time opportunities in fast paced industry with good experience of technical and management skills. Enthusiastic, confident and a very good team player seeking to learn from the best professionals.

EDUCATION

Master in Engineering, Aerospace Engineering, University of Cincinnati, Cincinnati, OH. Coursework: Quality Control, NDT, FEA, Safety engineering & Product liability, Project Management	GPA - 3.2/4
Bachelor of Technology, Aerospace Engineering, SRM University, Chennai, India.	GPA- 3.1/4
Coursework: Aerodynamics, Flight dynamics, TQM & Reliability, Mechanics of solids	May 2014

TECHNICAL SKILLS

ANSYS, MS Project MATLAB, AUTOCAD, CATIA, Python, C programming, MS Office, Solidworks, Abaqus

WORK EXPERIENCE

Intern - Powercap Energy Conversions Pvt Ltd, Chennai, India

June 2014 - June 2015

- Accountable for developing cost-effective solutions with necessary quality checks.
- Implemented new product development by applying principles like Test marketing and commercialization.

Intern - Defence Avionics and Research Establishment (DARE), Bangalore, India

December 2012

- Contributed to the project 'Flight law design, control systems, design reviews'.
- Attained basic knowledge of working of aircraft panel and flight control systems.

PROJECT EXPERIENCE

Impact Analysis of a rigid body on rotating 3D blade, Finite Element Methods

March 2016-April 2016

- Studied FEA using ABAQUS for analyzing the impact of rigid body on elastic metal surface.
- Transient stress analysis of impact on 3D wing resembling a bird hit in low rpm turbine blades.

Collaborative UAV Lift for Air Transport of Rescue Pod during Emergency Evacuations/Disaster Management,

Systems Engineering

January 2016- April 2016

- Constructed System, Design, Customer requirements with resource allocation sheet, TPMs and traceability.
- Analyzed various operational and functional levels and created Decision evaluation matrix.

Experimental Investigation of Burn rate of Different Solid Propellants, Thrust Measuring Setup

Undergraduate Thesis Project – SRM University, Chennai, India

August 2013 – April 2014

- Compared different combinations of solid propellants to estimate the burn rate at various conditions.
- Successful design of a Solid Rocket Motor from scratch.

Investigation of a Defected Product and Analysis, Safety Engineering& product Liability

March 2016

- Analyzed defected products, studied the safety rules, liabilities etc to execute a report.
- Comparison of various products to provide acceptable levels of safety.

PROFESSIONAL AFFILLIATION

Teaching Assistant, Department of Physics, University of Cincinnati

Spring 2016-(Present)

International exchange student for an NGO 'Aiesec', Egypt

Summer 2011