

Viral Janardan Patel

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Objective: Seeking an engineering job in the field of Mechanical /Aerospace engineering utilizing my academic knowledge, technical skills and internship experience.

Education

University of Alabama in Huntsville

Huntsville, Alabama

Bachelor of Science Mechanical Engineering

Graduation: December 2012

Nirma University

Ahmedabad, India

Diploma in Mechanical Engineering

Certificate Received: 2008

Experience

Department of Mechanical and Aerospace Engineering

UAHuntsville - Teaching Assistant-Numerical Methods

January 2012-Current

- Assist in the instruction of MATLAB and MATHCAD
- Grade Home work

Alabama Math Science Technology Initiative

UAHuntsville - Student Specialist

November 2011-Current

- Quality check for modulus and their elements
- Pre-pack the elements after various quality tests

Nexus Energy Center (NEC)

Recycling Coordinate – Unpaid Internship

August 2012-Current

- Persuasive with the customers to use ; services provided by NEC
- Maintain data for ongoing projects

Kisan/Rajvi Tractors

Workshop Engineering – Internship

February 2008 – July 2008

- Organize meetings with technical team and explain details
- Create a planner for all incoming tractors
- Communicate with corporate engineers about basic ground level issues

Prasad Machinery Pvt. Ltd

Assistant Production Engineer – Internship

February 2007 – May 2007

- Read drawings and provide guidance to machinist.
- Proposed improvements for Granulators and a new production line for feeding screw for new plant.
- Assembly of conveyor belts widely used in pharmaceutical and plastic industries
- Used SAP to maintain inventory and check the latest status of the orders

Major Academic Projects

Design of Thermal System- MAE 455

Summer 2012.

Design a Heating system for six story building using **NASA-GFSSP** software. Created both thermal and fluids model using GFSSP software.

NASA-The Great MoonBuggy Race 2012-MAE 490

Spring 2012.

Design and Fabricate a human powered MoonBuggy that faces a series of engineering problems those were similar to problems faced by original MoonBuggy.

Strategically Tuned Absolutely Resilient Structures (STARS)-MAE 495

Spring 2012.

Design and Build Concrete Canoe for National competition. **Design is applied for patent.**

Principle of Measurement & Instruments- MAE 311

Spring 2012

Designed a new lab "Find the Coefficient of Lift" for introduction of Aerospace Engineering (MAE 200). Used Arduino (microprocessor) to control the voltage.

Computer Skills

- C, C++, Microsoft Office Suite, Matlab, MathCAD, Solid Edge, Auto Cad, Arduino(microprocessor), Lab view, Nastran and Patran- Finite Element Analysis (FEA), Enterprise Resource Planner (ERP)(SAP), Generalized Fluid System Simulation Program (NASA-GFSSP).

Organizations and Achievements

- Recycling Coordinator for Nexus Energy Center
- Submitted abstract to **International Astronautical Congress (IAC 2012)**.
- Participated in **NASA The Great Moon Buggy Race 2012**. (Including outreach event for Science, Technology, Engineering and Mathematics (**STEM**) initiative)
- Seminar on "**SQC & SIX SIGMA- A PATH WAY TOWARDS SUCCESS**".
- Concrete Canoe building team 2012.(ASCE , **Design is applied for Patent**)
- Board member, Mechanical Engineering student organization, 2005 – 2007
- Nominee for best student in Mechanical Engineering, Nirma University 2008
- Indian Society for Technical Education (student chapter) Secretary/Treasurer, Nirma University 2006.