# CLIENT NAME

City • State • Email • Phone

## ENTRY-LEVEL MECHANICAL/INDUSTRIAL ENGINEERING PROFILE

*Engineering professional along with teaching expertise in a reputed business school, practicum, and history of completing complex projects that contribute to long-term objectives with in the Mechanical/Industrial Engineering industries.*

## CANDIDATE OVERVIEW

Proven success in diagnosing and resolving engineering issues, supporting installation, testing, and troubleshooting of mechanical equipment. Skilled at designing engineering experiments and in applying quantitative models to improve the design and operation of modern manufacturing systems (knowledge of Lean & Six Sigma). Demonstrated capability in understanding supply chain and logistics management methodologies.

## EDUCATIONAL BACKGROUND

**M.S. Mechanical Engineering -** ARIZONA STATE UNIVERSITY, Tempe, AZ (expected May 2014) (CGPA 3.7)

**B.E. Mechanical Engineering** - NATIONAL INSTITUTE OF ENGINEERING, Mysore, India (2012) (CGPA 8.4)

## SKILL SET

C, MATLAB, ProE, JMP, SolidWorks, ANSYS, CNC Programming, MS Project, MS-Visio, MS Office Suite

## PROFESSIONAL EXPERIENCE

**IMERGY POWER SYSTEMS, Fremont, California**

**Technical Intern** (05/2013 to 08/2013)

Won an internship with this Next Generation Energy storage firm, assisting Senior Engineer in completing daily assignments, setting up and conducting experiments.

**Key Achievements**:

- Designed cost-effective experiment and test rig used in evaluating/determining/predicating flow resistance of low- or high-density felt to be used in flow batteries.
- Credited for evaluating/testing ultrasonic level sensor (FLOWLINE-ECHOPOD) that was giving off false readings, providing solution to deal with condensate and thus eliminating false readings.
- Recommended switching to ultra-sonic level sensor instead of LED sensors, which improved readings and reduced costs.
- Assisted in diagnosing and recommending use of a thicker polypropylene sheet to prevent leaks.

***Teaching Assistant:*** Supply Chain & Logistics Management *at* **ARIZONA STATE UNIVERSITY** *(08/2013- Present)*

- Recognized as the best "Teaching Assistant" as indicated by student evaluations

## ACADEMIC PROJECTS

- *Modeling of "Ultra-Mobile" Devices:* Worked in conjunction with Intel in leading team to perform a tear down analysis of a smartphone. Used Solidworks to model packaging components and ANSYS to perform cycling thermal loading. Concluded by addressing structural integrity issues based on materials behavior.
- *Design & Analysis of Cogeneration Plant for Ethanol Production*: Utilized parametric analysis to optimize performance parameters to reduce overall cost. Evaluated effects of inlet air-cooling techniques. Conducted cost studies and FMEA analysis.
- *Design of Hybrid Power Plant*: Played key role in conceptualizing and designing a hybrid 'Wind and Gas Turbine' plant that eliminated wind speed variability and increased Capacity Factor.
- *Design of Experiments (DOE)*: Utilized keen understating of DOE to determine Factors Affecting Pressure Drop across felt in a Flow Battery Storage system. Used JMP Pro for design and analysis.
- *Strategic Planning of Start Up Business:* Developed detailed business model to support transportation business. Oversaw creation of Market Strategy, Risk Mitigation Plan and SWOT analysis.

## GRADUATE COURSEWORK

Design of Experiments, Production Systems, Energy Systems Design, Thermodynamics, Microelectronics Packaging, Strategic Technology Planning, Wind Energy, Linear Algebra, Partial Differential Eqns.