

Ghazal Amar

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Summary

Rice University graduate in B.S. Mechanical Engineering with work experience in the oil and gas exploration and production industry. Excellent interpersonal and business communication, teamwork and leadership skills. Passionate about technical and personal development.

Experience in:

- Project planning and execution
- Technical problem solving
- Failure and risk analysis
- Mechanical system design and optimization
- Technical documentation and reporting
- Computer aided designing

Professional Experience

ConocoPhillips, Houston, TX

2013 - 2015

Production Engineer

Led the field operations team in solving engineering challenges involved in maintaining and enhancing oil and gas production in East Texas field.

- Proposed, planned and executed major capital and remedial projects.
- Championed project plans to operations manager with economic and risk analysis.
- Collaborated with production engineering team in solving technical challenges.
- Directed field team meetings to identify failures and optimize production.
- Designed, implemented, and optimized mechanical systems.
- Modeled reservoir performance and production trends.
- Delivered production and cost targets for the field.

Production Engineering Intern

Designed a produced water disposal system and presented project proposal to asset managers.

- Evaluated the existing second party disposal system and proposed constructing company owned disposal facility.
- Repurposed an inactive well and facility to reduce drilling and construction costs.
- Engineered the pipeline and pump system for the facility.
- Performed incremental economic analysis, comparing against the existing system.
- Collaborated with the legal team to ensure compliance with contractual obligations.
- Conducted geological formation analysis to measure environmental risk.

University of Texas at Austin, Austin, TX

2012

Petroleum and Geo-systems Engineering Research Intern

Assisted on a research project aimed at increasing fluid recovery from hydraulic fracturing.

- Constructed experimental setup for measuring interfacial tension of water and oil.
- Conducted multiple trials of the experiment using different surfactants.
- Analyzed experimental data to identify the most effective surfactant.

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Rice University, Houston, TX

2012

Teaching Assistant for Introduction to Computational Engineering Course

Assisted students in understanding and developing Matlab programming code to solve practical computational problems.

- Taught weekly help sessions and engaged students in group discussions.
- Initiated group exercise to facilitate collaborative learning.
- Conducted one-on-one code reviews and debugging session.

Education

B.S. Mechanical Engineering (Cum Laude), May 2014

Rice University, Houston, TX

Cumulative GPA: 3.9/4.0

Pertinent Courses

- Mechanical Design
- Material Strength
- Engineering Economics
- Computer Aided Design
- Control Systems
- Business Communication

Leadership Experience

American Society of Mechanical Engineers, Rice University

2013 - 2014

Vice Chair

- Directed day-to-day club activities and chaired board meetings.
- Organized and supervised club events for members, sponsors, and faculty.

Society of Women Engineers, Rice University

2012 - 2014

Treasurer

- Regulated club's financial activities, such as fundraising, expenses, reimbursements.
- Maintained monthly budget reports to allocated funds and track expenses.

Volunteer Experience

D.R.E.A.M. Design Project, S.F. Austin High School

2011 - 2012

- Mentored high school students in designing low-energy and high-power turbine fan blades.
- Encouraged them to attend college and inspired them to pursue engineering.

Special Skills

SolidWork, Matlab, LabView, Spotfire, Excel.

Fluent in Hindi.