

# Neil P. Shah

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## PROFESSIONAL EXPERIENCE

**BHP-Billiton: Petroleum Division**, Houston, TX

May 2009-August 2009

*Reservoir Evaluation Intern*

- Developed a more accurate oil and gas reservoir evaluation technique for BHP-Billiton's Bass-Strait asset portfolio.
- Analyzed historical production data and financials to create a comparative model that optimized reserve forecasting.
- Results: A significant increase in reserves accuracy over previous SEC filings. Presented lessons learned and future reserve options to joint Exxon and BHP-Billiton management.

**Chevron: Energy Technology Company**, Houston, TX

May 2008-August 2008

*Consulting Engineering Intern*

- Assessed current subsea delivery method in order to revamp growth strategy and reduce capital expenditures.
- Evaluated economics of current subsea market, reviewed patents and led vendor meetings.
- Developed multi-stage implementation plan for the Gulf of Mexico business unit.
- Results: New technologies focus and budget allocation for 2009. Recommendations presented to senior management.

**Chevron: Energy Technology Company**, Houston, TX

May 2007-August 2007

*Consulting Engineering Intern*

- Designed proprietary technology for offshore drilling and outlined long-term development plan for Chevron Business Unit clients.
- Modeled operations, estimated deployment costs and executed on development plan.
- Led vendor negotiations, managed internal clients, coordinated team-meetings and trained a Chevron employee for project roll-on.
- Results: A patentable technology and a budget allocation for 2008. Recommendations presented to senior management.

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## ACADEMIC & RESEARCH EXPERIENCE

**Microscale Modeling**, *Graduate Researcher*

August 2008-Present

- Designed computational fluid-dynamics (CFD) models for alternative energy applications.

**The University of Texas at Austin**, *Teaching Assistant*

August 2008-Present

- Supervised experiments and led discussion sessions for Fluid Mechanics lab.

**Cameron International Design Project**, *Project Lead*

August 2007-May 2008

- Managed team's project development, budget, time-line and client relations with Cameron.
- Resulted prototype for offshore drilling tool, implementation strategy and comparative cost estimates.
- Wrote detailed reports on team's progress and presented final recommendations to senior management.

**Uranium Price Forecasting**, *Researcher*

August 2007-May 2008

- Analyzed metal consumption trends and historical production data to develop a long-term Uranium pricing model.
- Co-authored a published paper on nuclear economics and presented findings at an energy conference.

**Monte-Carlo Simulations**, *Researcher*

August 2006-May 2007

- Modeled statistical risk of onboard spacecraft equipment failure and presented team results to senior NASA management.

**Asia Nuclear Energy Study**, *Researcher*

August 2005-May 2006

- Evaluated dynamics of South-Asian nuclear industry. Presented study to Department of Energy policy makers.

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## EDUCATION

**Masters of Science in Mechanical Engineering**, *The University of Texas at Austin*

May 2010

- Specialization within Thermal-Fluids and Alternative Energy.

**Bachelors of Science in Mechanical Engineering**, *The University of Texas at Austin*

May 2008

- Specialization within Petroleum and Nuclear Engineering.

**Relevant Coursework**

- Resource Economics and Valuation, Asset Pricing Theory, Probability & Statistics, Advanced Engineering Mathematics, Computational Methods & Programming and Communications & Public Speaking.

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## SKILLS & INTERESTS

- Independently learning finance and securities trading, active tracker of domestic and international financial news and current events.
- Programming and Software: Excel (VBA & macros), Java, C/C++, HTML, MATLAB, JMP, Solidworks, Inventor, MCNPx and, COMSOL.