Sample Resume - Graduate Student

Simona Patel

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Objective

A full-time position in Chemical Engineering with an emphasis on environmental concerns

Education

PhD, Chemical Engineering, May 2016
The University of Texas at Austin
Overall GPA: 3.90/4.00

Master of Science in Engineering, Chemical Engineering, May 2013
The University of Texas at Austin
Overall GPA: 3.50/4.00

Bachelor of Science, Chemical Engineering, May 2009
Texas A&M University
Overall GPA: 4.00/4.00

Related Courses

Elements of Modern Control Theory, Robust Process Control, Optimal Control Theory, Nonlinear Control Systems, Nonlinear Programming, Advanced Numerical Methods, Multivariate Statistical Analysis, Statistical Estimation Theory, Artificial Intelligence Programming for Engineers, Advanced Computational Fluid Transport

Dissertation

[Title of Dissertation]
[Brief Description of Dissertation Research]

Industry Experience

06/09 - 08/11

Engineering Associate, Fowler Chemical Corporation

- Performed evaluation of two competing scatterometers for use in measuring the dimensions of transistor gate profiles
- Developed and modified models to improve their ability to predict profiles of patterned photoresist and etched polysilicon

06/08 - 08/08

Engineering Intern, Mitchell Chemical Company

- Performed statistical analysis of systematic variation present in lithography critical dimension data provided by potential customers
- Wrote computer program that allows user to perform similar analysis, utilizing user interface

Academic Experience

Graduate Research Assistant, The University of Texas at Austin

- Developed a novel method for generating thermoplastic composite materials
- Established a set of relations between ratio of dynamic module and relaxation of time distributions

Graduate Student Resume Continued

Academic Experience (Continued)

Teaching Assistant, The University of Texas at Austin
- Served as teaching assistant and grader for Chemical Engineering Process Control course
- Supervised undergraduate and post graduate students
- Researched on synthesis and characterization of high performance polymers

Skills

Experience with first-principles modeling of dopant behavior in silicon
Extensive knowledge of ultrashallow junction engineering
Operating Systems: Macintosh, Windows, MS-DOS, UNIX
Software: Microsoft Office, NIH Image, Photoshop, SAS, Maple, Matlab, Lotus Notes
Strong communication skills- oral, written, and presentation
Excellent team skills

Accomplishments

Recipient, The University of Texas Continuing Doctoral Fellowship, 2013-2014
Recipient, The University of Texas College of Engineering Thrust Fellowship, 2013-2014
Recipient, National Science Foundation Graduate Research Fellowship, 2012-2013
Member, Phi Beta Kappa, 2008-2009
Member, Tau Beta Pi, 2007-2008
Volunteer, Humane Society, 2008-Present
Participant, Women in Engineering, 2006-2009

Publications

Patel, S., Kirichenk, T.A., Edgar, T.F., (2013). Origin of Vacancy and Interstitial and Stabilization at the Amorphous-Crystalline Silicon Interface. Journal of Applied Physics, 96(4), 443-449.
Patel, S., Siddiqui, M.H., (2013). Interaction between Interstitials and Arsenic-Vacancy Complexes in Crystalline Silicon. Journal of Applied Physics, 85(21), 502-504.
Patel, S., Siddiqui, M.G., Briceeto, D.M., (2012). Structure, Stability, Diffusion of Arsenic-Silicon Interstitial Pairs. Journal of Applied Physics, 44(18), 23-34.
Patel, S., Siddiqui, M.H., (2012). Issues in Physical Structure and Dynamics of the Diarsenic Complex in Crystalline Silicon. Paper presented at Chemical Conference, Houston, Texas, August 14, 2012.