Shane Di Dona
711 Lee Street
Asheboro, NC 27203
(336) 465-6147
stdidona@ncsu.edu

Objective

Research position in simulation or nanotechnology research and development.

Education

BS, Chemical Engineering with Honors and Nanoscience concentrations
BS, Physics
Mathematics minor
University Scholars Program
North Carolina State University, Raleigh, NC

MS, Chemical Engineering, North Carolina State University
Expected Graduation: 05/2012

GRE

680/800/6.0 Verbal/Math/Writing (Out of possible 800/800/6.0)

Experience

Research and Laboratory Support (including CHE497 for Fall 2009)
Dr. Gregory Parsons Research Group, North Carolina State University, Sep. 2008-May 2011

- Graphics and complex animations
- Researching dye-sensitized solar cells and hydrothermal growth of ZnO
- Researching fiber-based capacitor fabrication
- Thin film and device characterization
- Laboratory computer network maintenance
- Equipment scheduling system development
- Development of flexibility testing equipment

Research and Laboratory Support
Dr. Phillip Westmoreland Research Group, North Carolina State University, June 2011-Present

- Setup of CUDA-enabled computer for molecular simulation

CAD Reactor Design
Dr. Qing Peng, Duke University Electrical Engineering, September 2011-Present

- Assist in the design of two atomic layer deposition reactors, gas delivery system, and other equipment

Publications

Bo Gong, Qing Peng, and Gregory N. Parsons, *Conformal Organic-Inorganic Hybrid Network Polymer Thin Films by Molecular Layer Deposition using Trimethylaluminum and Glycidol*. The Journal of Physical Chemistry B, 2011. 115, 5930-5938. (Not author but acknowledged for graphic)

Comparing Temporally-Stitched and Simultaneous Route Travel Times at Various Aggregation Intervals. Submitted for consideration for publication and presentation. (Not author but acknowledged)

Honors and Activities

Student Member, American Chemical Society (2009-Present)
Attended MIT ACCESS 2009
Tau Beta Pi (Engineering Honor Society)
Phi Eta Sigma (Freshman Honor Society)
American Institute of Chemical Engineers (AIChE)
Society of Hispanic Professional Engineers (SHPE)
SkillsUSA Post Secondary Technical Drafting North Carolina State Conference, First Place 2008 & 2009
Edward E. and Kay T. Hood Scholarship (2006-2010)

Certifications

Completed SACHE Student Safety Certificate Modules:

Safety in the Chemical Process Industries	Chemical Reactivity Hazards	Process Safety 101
Runaway Reactions	Inherently Safer Design	
Risk Assessment	Dust Explosion Control	

Computer Skills

Fluent in 3ds max, SolidWorks, Mathematica, Microsoft Office; Familiar with ASPEN. Some experience in C#

Graphics and Animation Portfolio

Available upon Request;
sample available at http://shanedidona.com/portfolio2.ppt

References

Available upon Request