

## VARUN ULLAL

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### OBJECTIVE

A mechanical engineering position which is challenging and rewarding in a growth-oriented organization which will fully utilize my technical abilities.

### EDUCATION

Masters of Science, Mechanical Engineering  
*University of Arkansas, Fayetteville* Expected: May 2011  
Overall GPA: **3.67/4.0**

Bachelor of Science, Mechanical Engineering  
*Arkansas Tech University, Russellville* May 2008  
Overall GPA: **3.75/4.0**

- Associates: Nuclear Technology
- Minor: Mathematics

### SKILLS & ABILITIES

#### Engineering

- Worked with twelve people on mechanical and electrical systems of the solar-powered car for Solar Raycers Organization.
- Employed theoretical knowledge from books and used it for the optimization of rolling resistance and aerodynamic drag on the solar powered car.
- Worked on aerodynamics using finite element methods to design a frame for the SAE super-mileage vehicle contest.

#### Leadership

- Served as the secretary for the Association of Cultural Interaction and treasurer of the Solar Raycers' Organization.

#### Abilities

- Capable of working in a team, excellent communication skills
- Well versed with Word, Excel, PowerPoint, Solid Works, PSPICE, MATLAB, LAMMPS, Towhee, and basic programming in C language

### EXPERIENCE

#### Research Assistant

*Department of Mechanical Engineering, University of Arkansas* Fall 2009 to Present

- Working on Molecular Dynamics simulations to study the effects of diffusion and cross-linking in PDMS and PDMS based nano-composites.

#### Tutor

*Department of Mathematics, Arkansas Tech University* 2006 to 2007

- Provided assistance by guiding students to formulate an understanding of mathematical concepts.
- Fostered an amiable environment by greeting and interacting with students.

#### Grader

*Department of Mathematics, Arkansas Tech University* 2006 to 2007

- Graded homework assignments and helped students to conform to a structured solution pattern.

### HONORS AND PROFESSIONAL MEMBERSHIPS

- ASME & SAE
- Arkansas Traveler Award, presented by Hon. Governor Mike Huckabee, Spring 2004
- Engineering Award, Arkansas Tech University, 2005-2007