Sanjay K. Sah

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Education

PhD - Mechanical and Nuclear Engineering, May - 2015 (Anticipated)
Virginia Commonwealth University, Richmond, VA

M.S.- Mechanical and Nuclear Engineering - Nuclear Engineering, May - 2014
Virginia Commonwealth University, Richmond, VA

B.S. - Engineering Physics - Mechanical Systems, May - 2011
University of Central Oklahoma, Edmond, OK

Skills

Computer and Analytical Skills
- 3-D design software: AutoCAD, SolidWorks, Gambit, PRO/E
- Programming: MATLAB, Simulink, C, C++, LabVIEW
- Computation and Analysis: ANSYS, ANSYS-FLUENT, VISIT LLNL, COSMOS
- Others: Multisim, Microsoft Excel, Microsoft PowerPoint, Microsoft Word, Microsoft Project, Photoshop, HTML, PHP, My SQL, JavaScript

Practical Skills
- Skilled in working with wood, metal and machine shop application.
- Skilled in working with CNC Machine & 3-D Printer.
- Skilled in design, construction and manufacturing of mechanical structures.
- Excellent organizational and interpersonal skills with a strong facility for acquiring new knowledge very rapidly.
- Ethical, Flexible, analytical, leading, self-motivated and able to thrive in a fast paced, growth-oriented and time-critical environment.

Research Experiences

Graduate Research Assistant, VCU, Richmond, VA & Jefferson Lab, Newport News, VA (January 2012 - Present)
- Currently working on the magnetic materials characterization and modeling for magnetic shielding of cryomodules in particle accelerators.

Undergraduate Research Assistant, UCO, Edmond, OK (August 2009 – May 2011)
- Worked on numerical modeling of C5-C6 vertebrae at whiplash condition using ANSYS
- Completed the experimental setup for testing of cervical vertebrae at whiplash condition.

Undergraduate Research Assistant, UCO, Edmond, OK (Summer 2010)
- Worked on Crack-tip toughness measurement on a sintered reaction bonded Si_3N_4 using MATLAB
- Worked on DNA dynamic modeling using Optimization tool in MATLAB

Teaching Experiences

SI - General Chemistry I, Oklahoma State University-OKC (Spring 2008)
- Worked with the group of students in classroom and helped them solve problems.
- Provided students different techniques to tackle the course problems.

Tutor- Physics, UCO, Edmond, OK (Fall 2009)
- "General Physics 1 &2" and "Physics for Scientists and Engineers 1& 2"

TA -Physics for Scientist and Engineers-1, UCO, Edmond, OK (Spring 2010, Summer 2010, Fall 2010 & Spring 2011)
- Conducted the class once a week as a Drill-class Instructor & graded homework

TA -Physics for Scientist and Engineers-2, UCO, Edmond, OK (Summer 2010)
- Conducted the class once a week as a Drill-class Instructor & graded homework

TA- Engr. Strength of Materials, UCO, Edmond, OK (Spring 2010)
- Conducted the class once a week as a Drill-class Instructor & graded homework

Leaderships, Activities & Honors

- Research Assistantship Award & Grant, RCSA -UCO (Fall '09, Spring '10, Fall '10 & Spring '11)
- Non-Resident Tuition Waiver (Spring 2011)
- Physics and Engineering Club –UCO, Edmond, OK: Secretary (August '09 – May '10)
- American Society of Mechanical Engineers (ASME): Student Member (100066695)
- Society of Physics Student (SPS): Member (11306121)
- Mathematics Club-UCO: Member
- Robotics Club-UCO: Member
- Society of Petroleum Engineers: Member (3519915)
- American Physical Society (APS): Member (61083742)
- Dean's Honor Roll, UCO (Spring 2010 & Fall 2010)
- President's List of Distinguished Students, OSU-OKC (Fall 2007)
- Vice-President's List of Distinguished Students, OSU-OKC (Spring 2008)