

Altaf Ahmed Khan

Education

August 2010—Present University of Illinois at Chicago Chicago, IL

Doctorate of Philosophy in Mechanical Engineering to be awarded in 2015

- Concentration in Vibrations and Acoustics along with Biomedical Application

August 2006—May 2010 University of Illinois at Chicago Chicago, IL

Bachelors of Science in Mechanical Engineering

- Minor in Mathematics

Experience

August 2010—Present Department of Mechanical Engineering at Chicago, ILL
University of Illinois at Chicago

Research Assistant

- Currently studying elastography methods in the human body through the use of vibrations
- Primary focus has been on surface wave measurements through the use of Scanning Laser Doppler Vibrometry on human tissue such as skin, human cornea, and fingertips
- Work with Magnetic Resonance Imaging to measure elastic properties of internal tissue, such as muscle, cartilage, and lungs using MRE (Magnetic Resonance Elastography)
- Work on approved small animal research projects for monitoring of cartilage implant growths .

August 2009—Present Department of Campus Housing at University Chicago, IL
of Illinois at Chicago

Senior Peer Mentor: August 2012—Present

- Co-supervise a staff of 12 Peer Mentors while communicating effectively with Resident Director to successfully lead a staff of 25 Peer Mentors and Resident Assistants
- Collaborate with department on academic retention efforts through the use of Making Achievement Possible (MAP) program.
- Create a series of Academic Outreach Seminars facilitated by Academic Peer Mentors and Resident Assistants
- Co-advise building Hall Council and delegation of Illinois Residence Hall Association (IRHA)
- Evaluate, improve, and execute department process for students seeking Special Interest Communities in Residence Halls
- Maintain an overall safe building environment by enforcing departmental and university policies
- Review and approve program submissions by residents and staff members
- Shadow and observe Resident Director during documentation follow up meetings
- Track and evaluate staff programs

Peer Mentor: August 2009—May 2012

- Maintained an overall safe building environment
 - Built strong academic and social community in Residence Halls
 - Served as an academic resource for residents living on the same floor as Peer Mentor
 - Guided first year students through many different adjustments from high school to college experience
 - Facilitated First Year Experience programs throughout the year to assist students in academic growth
 - Met individually with first year students struggling academic to create an action plan for academic success
 - Created engaging and challenging programs for residents to foster personal development
 - Served as an academic tutor in Mathematics, Engineering, and Physics courses
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January 2008—May 2010

Math and Sciences Learning Center at
University of Illinois at Chicago

Chicago, IL

Math Tutor

- Helped students improve already learned math skills, while teaching more complex problems
- Continuously monitored lab to maintain supervisor's requirements
- Practiced math problems on own time to help students learn quickly as needed

June 2006—January 2007

June 2007—August 2007

May 2008—August 2008

RadioShack Corporation

Hoffman Estates, IL

Sales Associate

- Listened to customers to determine best solution to a problem
- Demonstrated knowledge of a large variety of products through quick memorization of materials
- Executed customer service in working with clientele

Leadership and Volunteer Work

February 2014 – Present

Mechanical Engineering Honors
Society Pi Tau Sigma, National Board

United States

National Vice President at Large

- Lead a group of enthusiastic students to revisit National Pi Tau Sigma practices and standards including annual National Conventions proceedings
- First student elected to National Board of Directors in February 2014

May 2010—Present

Mechanical Engineering Honors Society:
Pi Tau Sigma, UIC Alpha Sigma Chapter

Chicago, IL

Senior Advisor: May 2010—Present

- Member of society since November 2008
- Advise executive board of chapter through experience and knowledge of protocols
- Worked with officers to organize 2011 National Convention held at University of Illinois at Chicago
 - Contacted and worked with professional corporations, Mechanical Engineering Department, Student Activities Funding Committee, and Chicago Organization Funds for sponsorship
 - Worked with Crowne Plaza Metro Hotel to book space and hotel rooms while meticulously reviewing the contract
 - Reserved spaces and arrange for catering through university
 - Arranged for transportation across campus and city
 - Coordinated and communicated with National Officers and Chapter Presidents internationally to generate over 200 attendees
 - Raised money over \$40,000 and maintain accurate records for budget
- Attend annual National Conventions and serve as Chair for sessions
- Create, publish, and update chapter website

Vice President: August 2009—May 2010

- Responsible for recruitment of new members
 - Assisted President in duties, such as organizing tutoring schedules, teleconference with Nationals, organizing meetings for General Assemblies
 - Created bid to host 2011 National Convention
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June 2006—Present

Muslim Society Inc. Sunday School

Bloomington, IL

Administrator: August 2010—Present

- Lead a team of 30 volunteer teachers through effective training, evaluation, and advising
- Maintain accurate digital records for registration and payments of all students
- Reconcile sales receipt and manage departmental budget
- Execute disciplinary actions for students violating class policies
- Organize and distribute all materials that come through administration office

Volunteer Teacher: August 2006—Present

- Taught students values of core beliefs
 - Organized an efficient classroom while maintaining classroom expectations
 - Remained emotionally responsive to students' needs
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