

Arsalan Ahmed

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www.collegeassociates.weebly.com

EDUCATION

University of Michigan, Ann Arbor, MI

09/2004 - 04/2008

- Bachelor of Science in Mechanical Engineering; Mathematics Minor (*Magna Cum Laude*)
- **Cumulative GPA 3.57, Major GPA 3.61**
- Deans list & University Honors (6 semesters)
- *Leadership*: VP of Muslim Engineering Students Assoc.; Pi Tau Sigma Honors Society; Publicity chair for ASME; Tech Day design competition leader (largest high school recruitment event on campus)

PERTINENT COURSEWORK

- Partial and Nonlinear Differential Equations, Linear Algebra, Probability, Automatic Controls, Intermediate solid Mechanics, Finite Element Analysis, Intermediate Vibrations, Micro-Economics and Corporate Strategy
- Performed Design Project on Noise Analysis and Reduction of floor scrubber machine: Redesigned components to reduce noise level by 3dBA for a Tennant T5 floor scrubber without compromising the performance of the machine
- Designed a control system for windmill generator: simulated controller used to adjust the pitch angle of the windmill blade in order to maximize torque to produce greater power output.
- Designing and Manufacturing of a working flashlight & Mechanical catapult prepared using CAD systems and Computer Numerical Control (CNC) system
- Performed consulting project for FRAM Filters (subsidiary of Honeywell) and recommended short-long term recommendations to raise awareness and increase market share. Recommended to transform their DIY model into DIFM (Do It For Me)

WORK EXPERIENCE

Power Tutoring Dubai, UAE

12/2010 – Present

Instructor

- Instruct students in the subject of Mathematics & Physics for O/A Levels, IB and American curriculum
- Counsel students on college academic programs.

College Associates Dubai, UAE

10/2010 – Present

Admission Consultant

- Assist students to develop and prepare for college applications by arranging instructional activities
- Solved problems of students regarding to College admissions, college selections, interview etc.
- Offered academic tutoring in person and online via internet
- Serving as the Alumni Student Recruiter for University of Michigan

ALUTRADE LLC, Dubai, UAE

08/2008 – 10/2010

Aluminum and Building Supplies Company. Assets worth over \$5 million

General Manager

- Leading a team of 13 professionals in the development of our company's website and extensive product catalogs, Generated long term business strategies including increasing foreign imports, increasing sales distribution
- Launched private brand of hardware accessories ('DrillTec' and 'ALT'), increasing average monthly sales by 10%

Wireless Integrated Micro-Systems (WIMS) Lab, Ann Arbor, MI

05/2008 – 08/2008

Research Center for development of micro-scale devices

Research Assistant

- Performed research on silicon MEMS Gyroscope used for navigation & stability of aircrafts, satellites
- Analyzed the effect of temperature and vibration on gyroscope using Finite Element Analysis. Conducted experiments on turntables to validate simulated results

Engineering Learning Resource Center, Ann Arbor, MI

09/2007 – 04/2008

Center for Academic Support for Engineering students.

Instructor

- Tutored Calculus and sophomore/junior Mechanical Engineering courses
- Reviewed course projects, offering recommendations for improving the content and structure of reports

Computational Physics Group, Ann Arbor, MI

04/2007 – 08/2007

Research group for Biological Physics, Solid Mechanics and Materials Physics

Research Assistant

- Researched the responses of cells to mechanical stimuli & temperature its implications for inhibition of cancer cells and promotion of stem cell activity.
- Created mathematical model of actual cell samples and modeled its behavior using computer generated codes

PUBLICATIONS

- "Study of Cell Orientation Alignment in Response to Cyclic Mechanical Stresses", *Arsalan Ahmed*, University of Michigan Undergraduate Research Journal (www.umurf.org), issue 6, pp 40-51, 2009
- "Noise Analysis and Reduction of a Tenant T-5 Floor Scrubber", *Arsalan Ahmed, Pratyusha Devarakonda, Priyanka Sohani, Bronson Edwards*, Mechanical Engineering, Capstone Design (DEEP BLUE), 2008

ADDITIONAL INFORMATION

- *Community*: UM Alumni Student Recruitment Program volunteer in UAE. Developer & contributor of academic information based website Universal Knowledge. Executive member of the Pakistan Business Council Dubai
- *Computer skills*: C++, Matlab, AutoCad, Unigraphics, Adams, Comsol, Hypermesh, Minitab
- *Languages*: Fluent in Urdu, Hindi & Punjabi; basic understanding of Arabic