Nadeem Ahmad

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Education:

- **BSc Mechanical Engineering (Secured CGPA: 3.65)** **Sept 2014- July 2018**
  University of Engineering & Technology, Taxila
- **Introduction to Engineering Simulations (6 Weeks)** **Sept 4th- Oct 16th 2017**
  Cornell University, USA

Professional/Work Experience:

- **Social Entrepreneurship Project, UET Taxila** **Oct 2017-Mar 2018**
  1) Designed a Portable Scooter for Students for Interuniversity Commuting.
  2) The scooter is a simple 2-wheel scooter with a 49cc engine. A base metal catalytic converter is also installed to reduce the emissions.
  3) Rewarded as the Best Social Entrepreneurship Project by the Department of Mechanical Engineering, UET Taxila.
- **Internship at Rafhan Maize Products Co. Ltd.** **Jul 2017-Aug 2017**
  1) Got a good taste of Engineering Maintenance and Service Plant.
  2) I got more insights on ensuring quality standards at the back end while achieving or completing the task on time at the front end.
- **Executive Member, American Institute of Aeronautics and Astronautics (AIAA), UET Taxila** **Jan 2015- June 2018**
  1) Coordinated with the team to ensure, society remains on track to deliver good results.
  2) New ideas and agendas were discussed.
- **Executive Member, American Society of Mechanical Engineers (Taxila, Pakistan)** **Apr 2015- May 2016**
  1) Helped the team in achieving goals on regular basis.
  2) Organized various events.

Achievements:

- **Workshop on ANSYS and Pro-E, ASME (Taxila, Pakistan)** **Jan 24th -23th 2018**
  1) Headed a 2 days' workshop on ANSYS and Pro-E as a Guest Lecturer organized by ASME UET Taxila.
  2) Students were introduced to the basics of Computational Fluid Dynamics using ANSYS Fluent and Finite Element Analysis using ANSYS Static Structural.
- **Dice Automotive NED, Karachi** **Dec 27th–29th 2017**
  1) Represented UET Taxila at the DICE Project Exhibition and DICE Shark.
  2) Awarded by a certificate of Appreciation by DICE Foundation.
- **ANSYS Certification-Cornell University, USA** **Oct 19th- to date**
  1) Successfully completed 6 weeks online course on ANSYS from Cornell University through Edx.
  2) Passed the course scoring 90% marks.
- **AirEx Ghulam Ishaq Khan Institute (GIKI), Pakistan** **Jan 2016**
  1) Represented UET Taxila at AirExpo Competition at GIKI.
  2) Awarded by a Certificate of Appreciation by AIAA, GIKI.
- **Rawalpindi Board of Intermediate and Secondary Education (RBISE) Handball Championship, Pakistan** **Oct 2013**
  1) Played for Punjab College, Rawalpindi in RBISE Handball Championship.
  2) Reached the final of the championship and won the silver medal.
- **Rawalpindi Board of Intermediate and Secondary Education (RBISE) Basketball Championship, Pakistan** **Jan 2014**
  1) Played for Punjab College, Rawalpindi in RBISE Basketball Championship.
  2) Reached the final of the championship and won the silver medal.

Prominent Projects:

- Design and Fabrication of Portable 49cc Air Cooled Engine Powered Scooter with Base Metal Catalytic Converter.
- Design and Experimental Analysis of Liquid-Based Cooling vest for Human Comfort powered by Solar Cells.
- Fluid-Structure Interaction Analysis on the Deformation of Wind Turbine Blade due to Aerodynamic Load.
- Finite Element Analysis of the Bolted Flanged Joint Between Lower and Upper Nozzle of the F1 Engine of Saturn-V Rocket.
- Design a Suitable HVAC System after Heating and Cooling Load Calculations for a House.
- Flow Visualization and Modelling of Scrubbing Liquid Flow Pattern inside a Centrifugal wet Scrubber for Improved Design.
- Design, Fabrication and Analysis of a Single Shell and Single Tube with Three passes, Heat Exchanger

Software and Language Skills:

- **Proficient user** of Microsoft Office (Word, Excel and PowerPoint), Creo Parametric, Autodesk Inventor, AutoCAD, SolidWorks, CATIA, ANSYS Fluent, ANSYS Static Structural, ANSYS CFX, ACCULOAD, Residential Load Calc. and Cold Room Load Calc.
- **Intermediate expertise** in Arena, Lathe Cam Designer, Virtual Reality CNC Turning, Virtual Reality CNC Milling and Open CIM Software.
- **Basic expertise** in C, C++, MATLAB and LabVIEW.
- **Fluent** in English, and local languages Urdu and Punjabi.