

# Dr. Aqeel Ahmed

+92 21 9905 2463  
+92 336 2470121  
sohaibaqi@neduet.edu.pk  
aqahmed592@gmail.com

## Personal Details

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Date of Birth : 10<sup>th</sup> April, 1976  
Gender : Male  
Nationality : Pakistani

## Career Objective

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To pursue learning and research in the field of Industrial and Manufacturing Engineering. Also enrich my knowledge and improve my innovative and development skills. Collaborate with the industry to provide efficient and innovative research solutions, and teach effectively to impart and spread this knowledge.

## Award

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- PhD Scholarship through Faculty Development Programme (FDP) of NED UET to pursue higher education in Concordia University, Montreal (Quebec), Canada

## Career History

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2009 – 2013	<b>Concordia University, Montreal (Canada).</b> <i>Doctor of Philosophy</i> in the field of Mechanical Engineering.
2006– 2008	<b>NED University of Engineering and Technology, Karachi.</b> <i>Masters in Engineering</i> in the field of Industrial and Manufacturing Engineering with a CGPA of 3.8.
1998 – 2006	<b>Working as an instructor in Pakistan Navy Poly-technical institute (PNPI) Karachi.</b> Performed teaching and give training to the persons serving in the PN Dockyard workshops.
1993 – 1997	<b>NED University of Engineering and Technology, Karachi.</b> <i>Bachelors in Engineering</i> in the field of Mechanical Engineering with first class first division.

## **Current Responsibilities**

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Teaching, managing and supervising research as an Assistant Professor, in the Department of Industrial and Manufacturing Engineering of NED UET, Karachi since 2006.

Following are the main responsibilities;

- Supervisor of one Ph.D student.
- Member of the Ph.D admission committee.
- Supervisor of engineering projects for the undergraduate students.
- Teaching undergraduate and graduate courses,
- Consulting and providing corporate trainings to the managers and engineers related to production and operations management
- Final year class advisor,
- Member of the committee for the accreditation with Pakistan Engineering Council (P.E.C.).

## **Research Projects**

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Supervised following graduate projects;

- Design and fabrication of fully automated wire twisting machine. (FYP - B.E. 2015 for Thal Engineering).
- Design FEM based modeling, simulation analysis of investment casting product. (FYP - B.E. 2015 for Precision Engineering Complex, PIA).
- Design and development of paper recycling plant (FYP – B.E. 2015).
- By using queing theory, analyze the services of any bank and give suggestion for any improvement in services (FYP – B.E. 2015)
- Analyse the case of different inventory levels for various situations. (FYP 2015).
- Tool path generation and postprocessor verification of five axis milling machine. (FYP – B.E. 2016).
- Productivity enhancement of Gul Ahmed Textile through lean implementation. (FYP – B.E. 2018).

## Teaching

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Taught following graduate, undergraduate and corporate level courses;

- Operations Management (Under graduate course)
- Strategic Planning and Decision Making (Graduate course),
- Industrial Quality Control (Undergraduate course),
- Heat Transfer (Undergraduate course),
- (Finite element analysis) FEA(Undergraduate course)
- Tool Design (Undergraduate course)
- Industrial organization and management (Undergraduate course)
- Management information system (Undergraduate course)

## Publications

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1. **Aqeel Ahmed**, Zezhong Chevy Chen, Liming Wang, “Safe and short tool length determination for 5-axis machining of sculptured surfaces”. 1st international conference on virtual machining process technology. CIRP sponsored conference in May, 2012.
2. Liming Wang, **Aqeel Ahmed**, Zezhong Chevy Chen, “A parametric CAD model of end mill based on grinding processes” 1st international conference on virtual machining process technology. CIRP sponsored conference in May, 2012.
3. **Aqeel Ahmed**, Z. C. Chen, “A Precise Approach for the Determination of the Setup Parameters to Utilize Maximum Work Space of 5-Axis Machine Tools”, International Journal of Advanced Manufacturing Technology, online, Springer, 2015.
4. **Aqeel Ahmed**, Liming Wang, Syed Amir Iqbal, “An Efficient Method of Collision detection For 5-axis CNC Milling”, 5th International Mechanical Engineering Congress, 9-10<sup>th</sup> May, 2015, Karachi, Pakistan.
5. **Aqeel Ahmed**, Z. C. Chen, “A comprehensive approach to determining minimum cutter lengths for five-axis milling”, International Journal of Advanced Manufacturing Technology, online, Springer, 2016. (15-08-2016)
6. M. Rababah, M. Wasif, **Aqeel. Ahmed**, S. A. Iqbal, “Accurate Machine-Settings for the Face-Milling of Hypoid Gears”, International Review of Mechanical Engineering, Vol. 11, No. 12, page 1-12, Praise Worthy Prize, 2018.  
(DOI 10.15866/ireme.v11i12.14194)

## **Languages**

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- Fluency in English and Urdu.
- Basic Knowledge of French and Arabia.

## **Membership and Affiliations**

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- Pakistan Engineering Council (**PEC**).
- Member and reviewer of research articles and conferences arranges International Institute of Engineers (**IIE**).
- Reviewer of International Mechanical Engineering Congress of Institute of Engineers Pakistan (**IEP**).

## **Research Interests**

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- Strategic planning.
- Supply chain management in manufacturing industry.
- Optimization and productivity enhancement of production facilities.
- CAD/CAM.
- Optimization of tool design and machining parameters.