

**Ahmad Nawaz**  
**Mechanical Engineer**  
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**Personal Data**

**Permanent Address: House no. 17-B street 79 Sector G7/4 Wapda colony  
Islamabad**

**Nationality** : Pakistani  
**Father's Name** : Mir Farosh  
**Date of Birth** : 10 April, 1985  
**Material Status** : Single  
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**Academic Record**

Qualification	Institution	Year	Marks/Total	Division
MS Manufacturing Engineering	UET, Peshawar, Pakistan	2012	3.63/4	1 <sup>st</sup> (85%)
B.Sc Mechanical Engineering	UET , Peshawar, Pakistan.	2009	2.66/4	1 <sup>st</sup> (65%)
Pre- Engineering (F.Sc)	BISE Mardan, NWFP Pakistan.	2004	879/1100	1 <sup>st</sup> (78.6%)
SCC Science(SSC)	Govt high school Rustam Mardan.	2002	663/850	1 <sup>st</sup> (70.35%)

## Experiences and Achievements

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### **Lab Engineer CECOS University, Peshawar 12<sup>th</sup> February, 2013 to till date**

- Delivering Lectures in lab to undergraduate students.
- Preparing working instructions.
- Development of Thermodynamics and Manufacturing Lab.

### **Production Manager Of Tezraftar Rickshaw & Motorbike Section. 5<sup>th</sup> March 2010 to 20<sup>th</sup> Feb, 2011**

- Acquiring the Required Target of Production.
- Delivering Lectures on the Assembling procedures.
- Time & Motion studies conducted on each product and process.
- Applying concept of Lean Manufacturing in the factory.

### **As Engine Shop Supervisor at TezRaftar Rickshaw & Motorbike pvt Lahore. From 5<sup>th</sup> January, 2010 to 3rd March, 2010.**

- Managing Engine Section production.
- Ensuring Quality Tests of Engine.
- Ensuring that production is achieved at required time.

### **Working as Mechanical Engineer Engineer with PECS Industries Pvt Ltd Lahore. from 1<sup>st</sup> July 2009 to 1st January, 2010.**

#### **Job Responsibilities:**

- Production sequencing in Wiring Harnesses and auto Switches of different auto industries.
- To overcome the problems in the production.
  1. During the Honda green piece production there was a huge rejection in the production. I analyzed the problem and solved it and reduce the rejection to less than 2%.
  2. During the polyesters poring for electrical lamination there were always bubbles in the layer. So the problem was analyzed, solved and the bubbles reduced to a minimum level.
- Making production planning on the monthly basis for each section in the industry.
- To introduce time and motion study for the performance of the workers.
- To boost the workers for better performance and increased productivity.
- Designing of Wiring Harness and Ignition Coils of CD 70 and local Brand Bikes.
- Determining optimized conditions for injection molding parts.

**Eight months working in the Technology incubation centre Nust as a trainee engineer under the world bank programme. From 1<sup>st</sup> October 2008 to 4 June, 2009.**

**Job Responsibilities:**

- Practically understanding the application of engineering knowledge for entrepreneurial purposes.
- Visits to different Engineering Institutions in Pakistan;
- To analyze the Final year projects of the students and find their market viability.;
- To have meeting with the Higher Education Commission regarding the development of technology incubation centers in Pakistani universities;
- To make business plans for the new emerging companies and facilitate them to be benefited from the universities research and development

**RESEARCH WORK**

**Research Papers / Publications**

1. **Ahmad Nawaz**, Sahar Noor, Bilal Islam “Parameters affecting Void Elimination in Manufacturing of High voltage Impregnated automotive Ignition coil” *Proceedings of Hong Kong International Conference on Engineering & Applied Science, Material Science & Engineering Section*, pp:280-288)
2. **Ahmad Nawaz**, Bilal Islam, Naeem Khattak, Sahar Noor “Comparison of polyester and araldite impregnated ignition coils using SQC tools” *International Journal of Engineering and Technology* (2012) Vol; 12, Issue 6, pp:29-36
3. Abdullah Waseem, Ahmad Nawaz, Nauman Munir, Bilal Islam, Sahar Noor Comparative Analysis of different Materials for Pallet Design using ANSYS Submitted in IJMME, IJENS Publishers (2013)

**Research Interests**

1. Manufacturing Process Improvement
2. Time & motion Study
3. TQM
4. Scheduling
5. Composite Material Application
6. Facilities Analysis & Design
7. Manufacturing Planning & Control
8. Mechanical Engineering Design
9. Engineering Experimental Design
10. Automobiles Assembly & Design
11. Green Technology & Green Manufacturing

## References

**Dr Naeem Khattak**

(Associate Professor Mechanical Engineering Department U.E.T, Peshawar)

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MSc TQM, University of Glasgow (UK)

PhD, UET, Peshawar (PAK)

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(Chairman Industrial Engineering Department, U.E.T, Peshawar)

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PhD University of Bradford (UK)

**Engr Javed Iqbal**

(Retired Professor Electrical Engineering Department, U.E.T Lahore, Technical Director Pecs Industries (Pvt) ltd)

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MS University of Engineering & Technology, Lahore (PAK)

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PhD University of Bradford (UK)

**Dr Khalid Mehmood Ghauri**

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PhD Glasgow Stathclyde University (UK)

**Dr Nazir Hawary**

(Chairman Civil Engineering Department, Lahore Leeds University, Lahore)

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PhD Oka State University, Stillwater (USA)

**Dr. Rafiq Ahmad**

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