



**Muhammad Bilal**  
Mechanical Engineer

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New Shalimar Housing Scheme  
Salamat-Pura, Lahore  
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### OBJECTIVE

To secure a position in **Quality Control and Inspection** with a well-established/discipline organization with a stable environment in Technical Field and obtaining a position that will empower me to use my problem solving and governing abilities

### EDUCATION

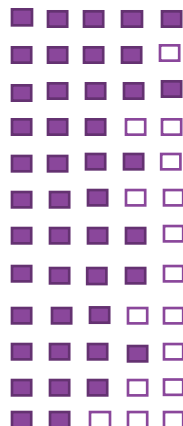
<b>B.Sc. Mechanical Engineering</b>	<b>[2014-2018]</b>
University of Engineering and Technology, Lahore	
<b>CGPA: 3.820</b>	
<b>F.Sc. Pre-Engineering</b>	<b>[2012-2014]</b>
Government College University, Lahore	
<b>Percentage secured [90.8%]</b>	
<b>Matriculation</b>	<b>[2010-2012]</b>
Don Bosco High School, Lahore.	
<b>Percentage secured [93.04%]</b>	

### FIELDS OF INTERESTS

- Quality and product evaluation in process industry
- Turbines and generators and noise control standards
- Automobile renovations
- Renewable energy (HHO and biodiesel)

### SKILLS AND ABILITIES

- Microsoft Office
- Auto-Cad
- Solid edge
- Mat lab
- Ansys
- C++
- G and M Codes
- Solid Works
- Microsoft Visio
- Ret-Screen
- HAP
- COMSOL



### WORK EXPERIENCE

#### INTERNEE ENGINEER (MAINTENANCE AND INSPECTION): MANGLA POWER STATION (AZAD JAMMU AND KASHMIR)

Date: July - August 2017

Project member for installation of overhead crane, Mechanical maintenance of Turbines and inspection of various mechanical losses and devised various ways of improvement

#### INTERNEE ENGINEER (PRODUCT ANALYSIS): TECHNOLOGIX AUTOMATION CONSULTANTS

Date: June - August 2016

Designed Turn-table for SAZGAR autorickshaw, CNC assembly and servo motors. Product evaluation and simplification of components for various complex mechanisms

### PROJECTS

#### Final Year Project

##### Emission and performance analysis of HHO as an alternative fuel with conventional fuels

Developed experimental setup of engine with instrumentation and quality control, Inducting HHO with Petrol, studying emissions comparison with standards and performance parameters curves

#### Other Projects

##### CAD modeling of Camshaft

Using Solid edge, designed a prototype of camshaft of Nissan car model and studied its features

##### Vortex tube

Detail study of vortex tube refrigeration, optimization of performance parameters and fabrication of efficient vortex tube

##### Double acting pump

Designed and fabricated double acting pump for cooling purpose for various processes in industry using solenoid valves

##### Flywheel based battery charger

Designed and fabricated charger utilizing human power during cycle to charge a battery having a flywheel

##### ASME UET

Member in the technical section ASME and worked on formula-1 racing cars [2016] Air driven engine project [2017]

### EXTRA CORRICULAR ACTIVITIES

- Basket Ball
- Volley Ball
- Debating
- Chess
- Hand ball