

# MUHAMMAD UMAR HAFEEZ

## MECHANICAL ENGINEER

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### EDUCATION

BSc. Mechanical Engineering  
UET Lahore (2014-2018)  
CGPA 3.2/4.00

FSc Pre-Engineering  
GCU Lahore (2012-2014)  
89.2%

### PROFESSIONAL SOFTWARE

AUTO CAD  
Solid Works  
Solid Edge  
ANSYS  
HAP  
C++ Basic Programming  
Microsoft Office

### AWARDS

Manager (Technical-ASME)  
Ass. Manager (Technical-ASME)  
Volunteer Organizer (ASHRAE)  
CM Punjab Essay Competitions  
PTB Calligraphy Competition

### SKILLS

Emotional Intelligence  
Critical Thinking  
Creativity  
People Management  
Coordinating with Others  
Decision Making  
Service Orientation  
Negotiation  
Flexibility

### EXPERIENCE

#### DESCON | 4 weeks

Intern

- Intern in PMT Boiler Section
- Study of Drawings and P&IDs, Calculation of BOQs
- Welding (types and Joints) | Boilers and HX | Project Management

#### Agritech limited (Pak American Fertilizer limited) | 4 weeks

Intern

- Overview of maintenance and operations being done at Ammonia plant, Urea plant and Utilities Plant.
- Overview of HX and Cooling Towers | Motors and Turbines
- Process Flow Diagrams | Pumps & Compressors

#### Etimaad Engineering + Total PARCO | 4 weeks

Intern

- Intern at Total PARCO Machikay Terminal
- Study of Drawings, Mechanical Structures and Piping
- Welding | Pumps, Valves, Gentries | General maintenance

#### Pak Elektron Limited | 4 weeks

Intern

- Intern in Appliances Department
- Experience of Hydraulics and PEL power plant
- Project: Productivity Improvement of Deep Freezer Plant

#### Automotive components Limited | 3 weeks

Intern

- Study of Speedometer Parts Assembly Unit
- Drawing Audit of CD-70 and CD-125 Speedometer
- Time calculations for speedometer parts assembly unit
- Materials Testing and Gauge Control

### PROJECTS

**Final Year Project** | Design & Analysis of Steam Turbine Power Plant with low grade coal using Circulating Fluidized Bed Combustion

- Design & Thermal analysis of a Disc Brake using Solid Works and ANSYS.
- Design & Static analysis of a Pressure Vessel using Solid Works and ANSYS.
- CFX analysis of a Pressure Vessel for suitable Nozzle Location
- Design and Analysis of Shell and Tube HX using TEMA standards
- Cooling Load Calculation for HVAC system for Mechanical Engineering Department UET Lhr