

# Muhammad Usman

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Khiali, Asad colony, street # 4. Gujranwala, Pakistan

## EDUCATION

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### University of Engineering & Technology, Taxila

2014 — 2018

BS in Mechanical Engineering  
CGPA: 3.43/4.00

### Punjab college of Science, GRW

2012—2014

F.sc. Pre-Engineering  
Percentage: 84.9% (A+)

2010—2012

### The Punjab Higher Secondary School

Matric Science Percentage:  
89.5% (A+)

## WORK EXPERIENCE

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### Coca-Cola Beverages Pakistan Ltd. Gujranwala

Aug 2017 — Sep 2017

#### Mechanical Engineering intern

- Service line efficiency enhancement of RGB line 4 (Internship project)
- Gone through the process of filling and inspection of beverage bottles
- Worked as Production engineering intern in controlling and monitoring day to day production, planning manpower, materials and machines to achieve tight production delivery deadlines.
- Applied real time managerial simulations of workers and their availability on ARENA and CIM Manager
- Studied the importance and services of utility department in an industry (Boilers, AHU, Compressors)

### Service Industries Ltd. Gujrat

Jul 2017 — Aug 2017

#### Engineering Intern

- Got real exposure of practical work environment of industry
- Made complete analysis on production process of Tyre & Tubes which explains the working of different types of rollers, extruders, Valves, press baking and vending machines
- Studied the working of Utility department (Steam Generator, Compressor, Pumps, Boilers, cooling towers, power house)

**Mechanical Maintenance department Intern**

- Studied general production procedure of crystal clear paper sheets
- Got the real exposure of maintenance of different types of rollers and injection modelling machines
- Made different threaded parts on lathe

## **PROJECTS UNDERTAKEN**

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- HVAC system design for a Hospital (Load calculations using HAP)
- Heat Transfer Analysis of Finned surface Circular pipe using ANSYS
- Design, control & fabrication of Solar Cooker
- Design and Thermal simulations of Gasketed Heat exchanger using ANSYS
- Fabrication & Experimental analysis of Liquid base Cooling Vest for Human Comfort (Final Year Project)
- Proposed Layout for installation of Curing machines in Tyre production unit (Internship Project)

## **ACHIEVEMENTS**

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- Winner of Semester project (Solar Cooker)
- Prime Minister Laptop awardee
- Won prize money on acquiring position in 1<sup>st</sup> Semester
- Successfully organized TechFiesta'15 under the platform of ASME
- Executive member of American Society of Mechanical Engineers
- Runner up of International Science Youth symposium GIKI
- Won Scholarship based admission in F.Sc Punjab College
- Certificate earned: Introduction to Thermodynamics: Transferring Energy from Here to There by University of Michigan

## **SOFTWARE SKILLS**

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- Software technical proficiencies include AutoCAD, CREO, HAP, Autodesk, LabVIEW, MATLAB, OpenCIM, and ARENA
- Research and design proficiencies include Finite Element Analysis ANSYS
- Computer proficiencies include Microsoft Word, Excel, PowerPoint, Publisher, Visio

## **REFERENCES**

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References available upon request