

# M Junaid Tabassum / Mechanical Engineer

DOB: 14 Aug, 1994

18-H/1648 Pof Wah Cantt Taxila, Pakistan.

junaid.uetengineer786@gmail.com

03045240424 / 03085172959

## OBJECTIVE

A dynamic entry-level professional with demonstrated proficiency in **CAD/CAM** by using different software including **Solid works, ANSYS and, MasterCam** and also technical hard-working individual with experience in mechanical engineering and excellent problem-solving skills through condition monitoring in other words predictive maintenance. Seeking the role of Internee in Manufacturing and Design Department where I would be given an opportunity to utilize my strengths and skills for benefit of both the organization as well as myself.

## CORE STRENGTH / TECHNICAL SKILLS

### ✓ CAD/CAM Skills

- Solid Works
- Auto-CAD
- Ansys (Mechanical APDL)
- Pro-E
- MS Office
- Solid Edge
- Auto Desk Inventor
- Abaqus
- Math Cad
- Typing Master

### ✓ Machining and Welding Tools

- CNC Machine Programming
- Lathes
- Plasma cutters
- Arc welding
- Band saws
- Drill presses
- Milling Machine
- Angle grinders,
- Oxy-acetylene torches,
- Shaper & Planer,
- Grinders,
- Chop saws, etc.

### ✓ Presentation Skills

Designed, prepared and delivered numerous presentations in groups and individually.

### ✓ Leadership Skills

Strong team collaboration skills. Work closely with team members to achieve engineering goals.

### ✓ Technical Skills

Technical mind, Analytical Thinker, Problem solver, Team Player, Decision Making, Creative.

### ✓ Solid command of technologies, tools and best practices in designing mechanical equipment using AutoCAD, SolidWorks and engineering drawings.

### ✓ Excellent shop and safety skills honed from work as a machinist and welder.

Able to design and fabricate tooling and mechanical test fixtures.

## EXPERIENCE

### ✓ Century Paper & Board Mills Lahore

### Worked & Study Here

Maintenance through Condition Monitoring.

## EDUCATION CAREER

---

- ✓ **B.Sc. Mechanical Engineering** (CGPA 3.12/4)  
University of Engineering and Technology, Lahore.
- ✓ **DAE Mechanical Technology** (90 %)  
Swedish institute of Technology Wah Cantt, Taxila.
- ✓ **Matriculation** (71.8 %)  
Federal Government High School Wah Cantt
- ✓ **Completed Courses in Major**  
Engineering Analysis, Mechanics of Materials, Fluid Mechanics,  
Measurement and Instrumentation, Mechanical Engineering Thermodynamics,  
Industrial Processes, Machine Design, Mechanical Vibrations, Thermal Systems  
Laboratory, Heat and Mass Transfer

## PROJECTS

---

- ✓ **Maintenance Strategies using Condition Monitoring.** (Final Year Project)  
It includes the maintenance of rotating machines through condition monitoring using different equipment (vibration analysis, temperature & noise) to enhance the reliability of the plant. By making different strategies for rotating machines (pumps, blowers & compressors) which are necessary for the running condition of the plant.
- ✓ **Electric Energy Harvesting System through Multiple Speed Hump** (Final Year Project)  
Simple energy conversion from mechanical to electrical to generate electricity using the vehicle kinetic energy as input.  
Included parts that **Designed and Fabricated** are:
  - Speed Hump
  - Spring
  - Rack- Pinion
  - Spur and Bevel Gears
  - Shaft
  - Fly Wheel and Generator etc.
- ✓ **Design and Fabrication of Steam Power Plant(Working Model)** (DAE Project)
  - Furnace(Methane Gas)
  - Simple Vertical Boiler(Working Model)
  - Turbine
  - Alternator etc.

## INTERNSHIPS

---

- ✓ **Pakistan Ordnance Factory Wah Cantt (POF)** 4 weeks  
Worked as an Internee Engineer in Pakistan Ordnance Factory where I visited many shops such as:
  - Automotive Shop
  - Fabrication Shop
  - Power House
  - Machine Shop
  - Locomotive Engine Repair Shop
  - Weapon Factory etc.

✓ **Heavy Mechanical Complex Taxila (HMC)**

**3 weeks**

Worked as an Internee Engineer in Heavy Mechanical Complex Taxila where I visited many shops such as:

- Non-destructive Testing Shop
- Foundry Shop
- Fabrication Shop
- Cleaning Shop
- Electrical Shop
- Bearing Shop
- Balancing Shop
- Machine Shop
- Instrumentation Shop

✓ **Heavy Industry Taxila (HIT)**

**6 weeks**

Worked as an Internee Engineer in different shops includes Diesel classified shop, complete overhauling of the APC and Tank and learn about:

- Internal combustion engine
- Removal of engine
- Installation of engine
- Maintenance of engine parts and also power transmission and lubrication of engines and cooling system of engines acknowledged there.
- Testing of engine
- Even all parts of Tanks and APC are overhauled in HIT that I learned.

**CERTIFICATION**

---

- |                      |               |
|----------------------|---------------|
| • Solid Works        | Online Course |
| • Master Cam         | Online Course |
| • Vibration analyser | Online Course |
| • Quality Management | Online Course |
| • Typing Master      | Virtual Uni.  |

**AREA OF INTEREST**

---

Designing, Management, Power plant work, Maintenance, Manufacturing process Works.