

## Work Experience

### Trainee Engineer(HVAC/Mechanical)

April 2018- Continued

Pakistan Civil Aviation Authority at Islamabad International Airport

1.Maintenance & operation of advanced YORK chillers, Marley Cooling towers, AHU's, FCU's, FAD's, VFD's, VSD's, Centrifugal Pumps. Analyze HVAC systems and equipment when necessary to find inefficiencies or malfunctions and develop solutions to optimize performance and increas working efficiency.

2.Supervision of KONE & Hyundai Lifts, Escalator, Travelators in Passenger Terminal Building.

### Graduate-Internee

Oct-2017-Jan-2018

#### 1. NURICON Wireline Services Pvt Ltd(Oil-field services)

Wireline & Slickline gauges calibration, units maintainence, rig-up & rig-down work inspection, Bottom hole assembly servicing, running and pulling tools, spooling wire, B.O.P testing & observing work safety.

#### 2.PETROSERVICES GmbH Pakistan Branch (Oil-field services)

Mud-logging working principles, servicing and maintenance of De-gaser, Gas Chromatography, sensors, Flame ionization detector, Hydrogen generator, Flouroscope, Monitoring(Softwares) & Alert system and practicing work safety.

### Summer-Internee

July-2016/Aug-2016

Malakand-III Hydropower Complex(81MW), K.P.K

Operation and maintenance including hydro-mechanical works design, load control systems, turbine performance(Francis Turbine), HVAC system, Heat Exchangers, SCADA systems and Air-Handling units.

### Summer-Internee

Aug-2016/Sept-2016

D.G. Khan Cement Company Limited (Khairpur Plant)

Inspection, Execution and maintenance of Plant such as mechanical equipments like kiln, preheated fans, screens, gears & material handling systems.

## Projects

### Final-year Project

(Effect of Channel Inlet Blockage on the Wake Structure of Rotationally Oscillating Cylinder(Research-Based).

Working on Ansys(Fluent) and Gambit, to create dynamic meshes of defined geometry and applying boundary conditions to Cylinders, study vortex induced vibrations along with aerodynamic quantities. Mostly found applications in Pipelines in ocean beds, enhance fluid mixing and fluid flow around structures.

### Analysis of Jet Engine Turbine (Ansys-Fluent)

Computational anlysis of Single stage Turbine, desgined in Solidworks, calculating the Thermal stresses, pressure contours and velocity streamlines produced due to High Velocity & Temp intake from combustion chamber.

### HVAC-Cooling & Heating Loads calculation of Residential Building

Semester project focused on calculating loads of a space and reducing the heat losses through insulation techniques, applications can be found in every industry.

## Education

### Bachelors in Mechanical Engineering

2013/2017

University of Engineering & Technology Taxila.

### Courses(Electives/Interest)

Power Plants	Heating Ventilation & Air-conditioning
Gas Dynamics	Heat & Mass Transfer
Thermodynamics	Manufacturing Processes

### Intermediate Education(F.sc Pre-Engineering)

2011/2013

Islamia College Peshawar

### Secondary School Certificate(Science-Group)

2009/2011

New Islamia Public School Charsadda

## Achievements

Chairperson - UET Media Society

I.M.E.C.H.E UETT Chapter (Senior Executive Member)

A.S.M.E UETT Chapter (General Member)

World Wildlife Federation (Contributor & General Member)

Denish Refugee Council (Volunteer)

National Youth Parliament Pakistan (House-Member)

SOS Children Village (Media Co-ordinator)



# Mehran Khan

Mechanical Engineer

Pakistan Engineering Council Certified

## Contact

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## Skills

Ansys/Fluent

AutoCad

Solidworks

Abaqus

Teamwork & Management

## Languages

English

Full Professional Proficiency

Urdu

Native or Bilingual Proficiency

Pushto

Native or Bilingual Proficiency