

# FURHAN KHAN

(Mechanical Engineer)

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Date of Birth: 18 Jan, 1993

Address: Department of Mechanical Engineering,  
International Islamic University Islamabad,  
Pakistan

## Objective

I always like to learn new things therefore I want to work in an environment where I can nurture my skills and academic abilities.

## Education

### MS Mechanical Engineering

Air University Islamabad

CGPA: 3.67 / 4.00

### BS Mechanical Engineering

International Islamic University Islamabad

CGPA: 3.50 / 4.00

## Work Experiences (Approx. 4 Years)

### 1- Lab Engineer (Mechanical Department)

**Institute:** International Islamic University, Islamabad, Pakistan.

**Duration:** Current workplace since January, 2018.

**Responsibilities:** Teaching Lab Courses and other miscellaneous duties that are assigned.

### 2- Lab Engineer (Mechanical Department)

**Institute:** Air University Islamabad, Pakistan

**Duration:** 08-08-2016 to 08-01-2018

**Responsibilities:** Teaching Lab Courses and other miscellaneous duties that are assigned.

## MS Thesis

### Behavior Analysis of Vertical Axis Water Turbine with Individual Blade Pitch Control

- Increased the Power Output by Modifying the Pitching Mechanism
- Wrote UDF on ANSYS Fluent to Employ the Pitching
- GAMBIT was used for Meshing the 2d Domain

## Lab Courses Taught

- Computational Fluid Dynamics (ANSYS Fluent + ICEM)
- Numerical Analysis and Computation (MATLAB Programming)
- Machine Design and CAD-I (Solidworks)
- Fluid Mechanics and Dynamics
- Thermodynamics
- Control Engineering and Instrumentation

## Technical Skills

- **FLUENT (ANSYS):** Steady and Transient Analysis of 2D & 3D Geometries
- **ICEM CFD:** Mesh Generation of 2d and 3d domains.
- **GAMBIT:** Mesh Generation of 2d domains.
- **SolidWorks:** Good at Modelling 3d parts and assembly.
- **MATLAB:** Skilled in Numerical Analysis and Control Engineering Perspective
- **MS Office:** Skilled in using these Software for Research Work and Presentations

## Academic References

- **Dr. Jehanzeb Masud**  
**Professor**  
Department of Mechanical and  
Aerospace Engineering  
Air University Islamabad Pakistan  
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