



# Curriculum Vitae

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## MUHAMMAD WAJAHAT KAMRAN



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## Objective

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To grow and excel in a professional environment and follow a career path to the top educational and technical level in a progress organization, also to get a challenging position where I can utilize my skills and expertise to achieve new milestones in my field.

## Education

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- **Graduation:** Bachelor of Science in **Mechanical Engineering** from **University of Wah, Wah Engineering College, Wah cantt**, scoring **CGPA of 2.89/4.0**.
- **Intermediate** FSC Pre-Engineering from **Board of Intermediate and Secondary Education Sargodha** scoring 80% Marks.
- **Matriculation** Matric from **Board of Intermediate and Secondary Education Sargodha** scoring 86% marks.

## Experience

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- **Pakistan Ordnance Factories Wah Cantt.**  
**Internship** at Pakistan Ordnance Factories Wah Cantt, during internship period interne worked at following departments  
MAA Fy.  
WEAPONS Fy.  
SAA Fy.

- **Mughal Machinery Works Bhakkar**  
Internship at **Mughal Engineering's Works** (Sound knowledge of manufacturing systems .machines, Material Requirement planning (MRP))
- **Teacher Assistant**  
Teacher Assistant for six months and very co-operative with teacher.
- **Chitral Engineering Works**  
Internship at Chitral Engineering Works for assistance in Final year project and to enhance the practicality of Industrial Engineering.
- **Government Technical Training Institute of TEVTA**  
Six month Welding Technology programme at **Government Technical Training Institute of TEVTA**
- **Continuous Professional Development Programme**  
Attend CPD program in Advancements in Engineering Materials

## Salient Persona

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- First position in Final Year Project Competition(Group Leader)
- Good C++ programming
- Pro/ENGINEER | PTC
- Solid Works
- ANSYS
- Matlab
- Team Leading
- Good Communication Skills
- Project Management
- Self-Motivating and Quick Learner

## PROJECTS

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- **[Water Rocket]**  
The water is forced out by a pressurized gas. Which produced thrust.
- **[Heat Exchanger]**  
Water to water Heat Exchanger
- **[Energy Audit and Ways of Saving Energy Through a Different Energy Source (Solar Energy)]**  
Solar energy is more cost effective which was audited for a specific place
- **[Performance Improvement of Two Stroke Internal Combustion Engine for Complete Combustion and Complete Exhaust]**  
Improved scavenging process which improved efficiency
- **[Balancing of Rotating Bodies]**  
To avoid vibration which caused failures
- **[Six Stroke Petrol Engine]**  
Two strokes were added with help of exhaust gases emitting

- **[Stability Analysis Of An Arm / Sensor / Environment Model For Force Control Of A Robot Manipulator In Contact With Its Environment]**  
A fourth order model was presented, its transfer function was found and Routh Horwitz Stability Test was conducted.
- **[Thermal analysis of Piston on Ansys]**  
To analyse the temperature distribution on surface of piston
- **[Continuous variable transmission(CVT) Bike]**  
Gearless transmission help full for disable persons
- **[Design and Fabrication of Pelton Wheel Turbine with Re-Engineered Blades & Auxiliary Attachments and Comparison with Conventional Pelton Wheel Turbine]**  
I have done my final year project on Pelton wheel turbine in order to enhance the power output of Turbine 20 percent of the extra power was produced than conventional Pelton wheel turbine

## Awards

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- **1<sup>st</sup> position in Final year project competition**
  - **2<sup>nd</sup> position in NED DICE Automotive Competition 2017**
  - **Got sponsorship in NED DICE competition for two CVT Bikes kit**
  - **2<sup>nd</sup> position in water rocket competition at WEC Techtronix 2016**
  - **2<sup>nd</sup> position in Bridge building competition in AIR NEX 2016**
  - **1<sup>st</sup> position in Egg drop competition in Civil Mania 2015**
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