

MUHAMMAD BILAL

BS Mechanical Engineering

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Home# P747/N-19 203 RB Manawala Faisalabad

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Objective

Obtain employment with your company to provide extensive leadership and **management** skills to improve daily operations while pursuing career advancement opportunities.

Academic Qualification

UET Taxila (2014-2018)

BSc-Mechanical Engg (Hons) CGPA: 3.73/4 Majors: Thermodynamics, Heat and Mass Transfer, Power Plants

Punjab College Faisalabad (2011-2013)

HSSC (Pre-Engineering) Marks: 86.4% Majors: Physics, Chemistry, Mathematics

MC Model Higher Secondary School (2009-2011)

SSC (Science) Marks: 81.81% Majors: Physics, Chemistry, Mathematics, Biology

Projects

Final Year Project

- **Title: “Design, Fabrication & Experimental analysis of Solar Thermal Tower Using Heliostats”** A research based project which involves the designing and experimentation of solar thermal power tower utilizing the “Nano fluids”
- **My contributions in final year project:**
 - Design and fabrication of “Cavity Type Receiver”
 - Thermal Analysis of the fluid used as heat absorbing medium
 - Simulation on TRANSYS & ANSYS

Semester Projects

- **Automation of “Water Bench”.** Present research focuses on automation to control a water bench using different sensors and actuated by “MATLAB” and LabVIEW
- Analysis and fabrication of “Counter and Co-flow Heat Exchanger” using water as working fluid by using “ANSYS”
- Modeling and analysis of crankshaft using “ANSYS”
- Programed password protected “Scientific Calculator”
- Reverse engineering of “Hook’s law” apparatus

Research Interest

- Renewable Energy
- Thermodynamics
- Heat and Mass Transfer

Massive Online Open Courses (MOOCS)

Wind Energy

Technical University of Denmark (DTU)

Duration: 5 Weeks

Leadership

University of Illinois

Duration: 4 Weeks

Skills

Inter/Intrapersonal

- **Presentation:** Developed ability to produce reports and presentations to a professional standard
- **Analysis & Evaluation:** Proficient in assessing data and formulating solutions
- **Organizational:** Effective at time management and prioritizing tasks to achieve deadlines
- **Communication:** Strong team working, leadership and communication skills

Software

- **ANSYS 16.0:** Modeling and analysis purpose
- **MATLAB:** Solving complex engineering problems and Simulink
- **Auto CAD 2015 :** 2D and 3D drawings using the visualization and technical documentation
- **Creo Pro 2.0:** Modeling of complex components and assemblies of objects
- **TRNSYS:** Simulation purpose

Awards/Achievements

- Qualified for merit based "PM Laptop Scheme Phase III"
- Head Boy of class (Intermediate)
- Head Boy of Class (Matriculation)
- Best student award class 8th-10th

Internships Experience

GENCO ||| Power Plant Faisalabad: (July 20 - Aug 20,2016)

- Plant P&IDs and case study of different systems
- Assisted site engineers in developing plant operating
- Assisted shift operations team regarding the operation/control of BOP, GT & ST

Pakistan Ordnance Factory: (Aug 02 - Sep 02,2017)

- Visit **Weapons Factory** and learn about weapons and different kind of operation held on
- Visit **Medium Arm Ambulation Factory** and learn about different parts of rockets and gunnards
- Visit **Brass mill** and learn about manufacturing processes of different materials

Seminars/Workshops

- **Social Entrepreneurship and Social Enterprises:** 22nd Aug, 2016 by UET Taxila
- **7th International Mechanical Engineering Congress (SIMEC-2017):** 24th-25th March, 2017 by NED
- **EDUCATION & LEADERSHIP CONFERENCE (ELC) 2017:** 7th-9th Apr, 2017 conducted by BOLD at Lahore

Volunteer Works

- Served as **President** of a Social Organization of students for 2016-17 at University Level
- Serving as **Chairperson** of an educational awareness team "Helping hand" since June 2015
- Executive Member of "**IMechE**" Technical Society UET Taxila 2014-15
- Executive Member of "**Almohandis**" Literary Society UET Taxila 2014-15
- **Teaching Experience** of three months (Sep-Nov 2013) in a welfare organization at "Intermediate Level"