

Engr. Muhammad Bilal

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Professional Synopsis

- A dynamic professional with **2+ years** of experience in Mechanical/Mechatronics field.
- Passionate about applications of Mechatronics in Mechanics, Electronics and Control System while pickings into retainer the latest technology and techniques.
- Skilled Mechatronics Engineer who excels at juggling multiple tasks and working under pressure.
- Proficient in planning and implementing abilities with demonstrated success in handling technical issues as well as administrative Issues.
- Adept at handling day to day administrative activities in coordination with internal /external Departments for smoothens business operations.
- An effective communicator with excellent relationship building & interpersonal skills. Strong analytical, problem solving and organizational ability. Possess flexible and details orientated attitude.

Academic Background

2012 - 2016 Bachelors in Mechatronics Engineering

*University Of Engineering & Technology, Taxila Campus Chakwal, Pakistan
(1st Division)*

2010 - 2012 F.sc (Pre-Engineering)

*Punjab Group of College, Sargodha Pakistan
(1st Division)*

Professional Experience

Assistant Engineer **IZHAR Group of Companies**
(Mar 2017 - Present) www.izhar.com

Project: Installation of new Cement Plant at DG Cement Private Limited (DGKCCL) Hub Baluchistan

- Close coordination with sub-contractors and departments for execution of planned work
- Oversee the work of contractors in accordance with project requirements.
- Create mechanical design documents for parts, assemblies, or finished products
- Maintain technical project files.
- Analyze existing development or manufacturing procedures and suggest improvements
- Publish engineering reports documenting design details or qualification test results.
- Conduct studies to determine the feasibility, costs, or performance benefits of new equipment.

Project: Extension of International Islamabad Airport Pakistan

- Worked as trainee engineer, supervised the site and man power.
- Managed the erections of Steel works & Civil Works (i.e. installation of fence)
- Supervised the installation of overhead automatic doors

Instructor Mechatronics **Govt. College of Technology, Chakwal.**
(Aug 2016 – Mar 2017) www.tevta.gop.pk

Subjects:

- Drives & Linkages (2nd year)
- Sensors & Actuators (2nd year)
- Electronics Devices & Circuits (2nd year)
- Introduction to Mechatronics (1st year)
- Electronic Devices (1st year)

Internee **PTCL Sargodha.**
(Jun 2015 – Jul 2015) www.ptcl.com.pk

- Visited different systems and learned their working principles. Systems including SDH system, ZTE ADM system etc)

Internee **DG Khan Cement Company, Khairpur Plant, Kallar Kahar.**
(Jun 2014 – Jul 2014) www.dgcement.com

- Visited Plant. Observed and got knowledge about different processes. (i.e. from Raw material collection to Packing plant). Got lectures on safety, PLC and plant operating processes from management. Visited laboratories in which quality of cement is maintained.

Core Competencies

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| ➤ Time Management abilities | ➤ Strategic prioritization |
| ➤ Problem-Solving techniques | ➤ Synergizing Behaviour |
| ➤ Written and Verbal communication skills | |

Academic Projects

Final Year Project Collision avoiding collaborative control robot

- **Description:** A collaborative controlled intelligent vehicle having prismatic movement was designed to detect collision, falling in the path by some sensing device. It had ability to capture the video of obstacles and send signal to the computer through some wireless technique.
- **Main Responsibilities:** Assist and manage the mechanical works like Assembly of the robot, base of robot, etc as well as documentation of the project. Worked on the implementation plans.

Semester Projects:

- **CNC Machine (Computer Numerical Controlled)**
We, member of 5 students, made CNC machine which was able to move in 3 axis (i.e. x-axis, y-axis and z-axis) and had ability to perform drilling and milling. I managed operation of encoders whom assembled with DC motors.
- **Automatic Traffic Signal Control**
We member of 2 students, made automatic traffic signals by using IR as a Sensor and PIC (16f877a) as a Controller. I managed Mechanical assembly and circuit design of the project.
- **Automatic Door Opening & Closing**
We used IR as a sensor and L293d as a motor driver. I managed the circuit operation and its design.

➤ **Line Follower Robot**

We used LDR as a sensor and L293d as a motor driver. I managed the circuit design, LDR and motor operations.

Achievements

- 2016 **Best Teacher Ambassador** in Expo Gala'16 at **University of Engineering and Technology Taxila, Sub-Campus Chakwal.**
- 2015 **Winner of Project Exhibition** held in **University of Engineering and Technology Taxila, Sub-Campus Chakwal.**
- 2014 Participated in One Day Training session of **Arduino UNO** course organized by **University.**
- 2014 Participated in **Poster Competition** organized by **University.**
- 2010 **Diploma in Office Management** (03 months) from **National Computer College Sargodha.**

Extra-Curricular Activities

- **President of Campus Sports Committee:** University Of Engineering and Technology Taxila (Sub-Campus Chakwal) from 2015 to 2016
- **Events Head of MecFest'16:** University Of Engineering and Technology Taxila (Sub-Campus Chakwal) from 2015 to 2016
- **Publication Manager of Editorial Board (Official University Magazine):** University Of Engineering and Technology Taxila (Sub-Campus Chakwal) from 2015 to 2016
- **Sr. Executive Member of Environmental Protection Society:** University Of Engineering and Technology Taxila (Sub-Campus Chakwal) from 2014 to 2015

Personal Profiles

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| ➤ Father Name: Muhammad Ramzan | ➤ Date of Birth: 27 th June, 1994 |
| ➤ Marital Status: Single | ➤ Gender: Male |
| ➤ Nationality: Pakistani | ➤ Religion: Islam |

References

To be furnished upon Request.