



# Muhammad Imran Ashraf

Mechatronics and Control Engineer

+92-303-8413937

[2019mc251@student.uet.edu.pk](mailto:2019mc251@student.uet.edu.pk)

Muhammad-imran-ashraf-mechatronics-engineer

Street # 8, Farooqabad, Samundri Road, Faisalabad



**Objective:** To leverage my expertise in embedded systems and programming to contribute to the development of innovative and efficient solutions as an Embedded Engineer in a dynamic and technology-driven organization.

## Education: University of Engineering and Technology Lahore

2019-2023

*BSc in Mechatronics and Control Engineering*

Faisalabad

- Embedded Systems
- Machine Vision
- Digital signal Processing
- CGPA: 3.83

## Govt. Post Graduate College of Science

2017-2019

*FSc Pre-Engineering*

Faisalabad

- Marks Obtained = 91%

## Govt. M. C. High School Millat Colony

2015-2017

*Matriculation*

Faisalabad

- Marks Obtained = 91.4%

## Experience: Embedded Engineer

June 2023 – Sep 2023

*INNOVATION LAB*

Faisalabad

- Project Management
- Esp32, Arduino, Expressif Idf, esp8266
- CAD And CAM
- Mqtt, http protocols
- I2C protocols, RS485 protocol, Assembly Language
- TLS, OTA
- Energy Monitoring

## Embedded Engineer

Oct 2023 – Dec 2023

*Dysol Pvt*

Lahore

- Project Management
- Esp32, Arduino, Expressif Idf, esp8266
- CAD And CAM
- Mqtt, http protocols
- I2C protocols, RS485 protocol, Assembly Language
- TLS, OTA
- GSM Module
- Energy Monitoring



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## System Engineer

*HoboeTech Pvt limited*

Dec 2023 – Present

Lahore

- Project Management
- Linux (Debian, Proxmox)
- LAMP
- Mqtt, http protocols
- Python, Bash, php
- System handling and monitoring
- Grafana Expert (Monitoring Tool)

## Projects: Work Projects

- Air Quality Monitoring (Nova Sensor, Mqtt, Panel Display, .json )
- 3-phase Energy Monitoring using Rs485
- 7-segment Display using esp32 using LE Bluetooth
- Hand on experience on different sensors.
- IR transmitter And Receiver
- Working with GSM M95R (Quectel)
- OTA updates using https

## Semester Projects

- Audio amplifier Mono + stereo
- Traffic Control System using Counters (decoders + diodes) in DLD.
- Cricket score management System using .NET Framework (C#).
- POV (Persistence of Vision) base 7-Segment Display
- Dehydrator
- Inverted Pendulum

## Final Year Projects

- EEG based Identification of Lower Limb Activities Using **brain-Computer Interface**

## Skills:

### Engineering Skills

- Electronic Circuits Designing (Proteus)
- Linux Expert
- Working with LAMP
- Proxmox expert
- Grafana Monitoring tool expert
- CNC Programming and CAD / CAM 3D Modelling (Fusion 360, SolidWorks, AutoCad )
- PLC Programming (Fatek)
- Microcontrollers Programming (Esp32, Arduino, PIC18452)
- Assembly Language, C++, C#, Python



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- MATLAB, Machine Vision
- Computer Skills

### Management Skills

- Team management
- Smart Worker.
- Quick learner

**Honors:** Gold Medalist, UET Lahore, 2023