Muhammad Imran Ashraf
Mechatronics and Control Engineer

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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 protocls, 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 protocls, RS485 protocol, Assembly Language
- TLS, OTA
- GSM Module
- Energy Monitoring

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System Engineer   Dec 2023 – Present
HoboeTech Pvt limited   Lahore

- Project Management Open Source Tools
  - Taiga
  - Worklenz
- Linux
  - Debian
  - Proxmox
  - Centos
  - Cloudstack
- LAMP
  - Expert in Linux Commands
  - Web server (Apache, Nginx, Python based custom)
  - Database handling (Mysql, MongoDB)
  - PHP, python, bash developer
- Monitoring Tool
  - Grafana
  - Graylog
  - Prometheus
  - Elastic Search
  - Exporters
  - Alerts (via a msg gateways and emails)
- SMS-Gateways
  - KANNEL
  - SMPP
  - KSMPP
- VoIP
  - Asterisk

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#).

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- 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, PHP, Bash
- MATLAB, Machine Vision
- Computer Skills

Management Skills

- Team management
- Smart Worker.
- Quick learner

Honors: Gold Medalist, UET Lahore, 2023