

Muhammad Imran Ashraf

Mechatronics and Control Engineer

+92-303-8413937 muhammadimranashraf251@gmail.com 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:

Linux System Engineer HoboeTech Pvt limited

Dec 2023 - Present

Lahore

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



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- **SMS-Gateways**
 - o KANNEL
 - o SMPP
 - o KSMPP
- VoIP
 - Asterisk

Embedded Engineer

May 2023 – Dec 2023

Lahore

Dysol by Rada Technologies

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

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
- CMT management Tool (Kannel + SMPP)
- Multiple Opensource tools

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

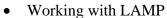


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- Proxmox expert
- Grafana Monitoring tool expert
- CNC Programming and CAD / CAM 3D Modelling (Fusion 360, SolidWorks, AutoCad)
- PLC Programming (Fatek)
- Microcontrollers Programming (Esp32, Arduino, PIC18452)
- Assembly Language, C++, C#, Python, PHP, Bash
- MATLAB, Machine Vision
- Computer Skills

Management Skills

- Team management
- Smart Worker.
- Quick learner

Honors: Gold Medalist, UET Lahore, 2023