Shayan Iqbal

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EXPERIENCE

Tesla Industries **Dec 2021- till date**

Research and Development Engineer

- Responsible for debugging and improving services of Inverters.
- Team member of developing and launching the first AC EV chargers in Pakistan.
- Providing technical support to the DC charger team to ensure smooth debugging.
- Assembled a DC charger of 120Kw and designing the assembly of charger.
- Developed an arduino based feeding device and integrating it with several on-grid inverters which controls and monitors the attributes at real-time of load and generation of inverter.

EDUCATION

Capital University of Sciences and Technology – Islamabad **Jan 2017-Mar 2022**

Bachelor of Science in Electrical Electronics Engineering (BS-EE)

Punjab Group of Colleges- PCIT Campus **Sep 2015-Aug2017**

F.Sc Pre Engineering

Asif Public School System- Rawalpindi **Mar 2013-Jun 2015**

Matriculation in Sciences- Majors in Computer

CODING SKILLS AND COMPETENCIES

- C/C++, Verilog, MATLAB.
- Python.
- Assembly Programming (808x).
- HTML/CSS.
- .JavaScript.

SOFTWARE SKILLS

- Arduino IDE, Microsoft VS Code.
- Xilinx ISE, MS Visual Studio, ModelSim, Proteus, LTspice, Pspice, eTAP.
- AutoCAD, MS Office.
- Pycharm, Anaconda, Atmel Studio.
- Keil uVision, MultiSim, Altium, Atmel Studio

PERSONALITY HIGHLIGHTS

- Project management
- Strong decision maker
- Complex problem solver
- Innovative
- Service-focused
- Analytical Thinker

PROJECTS

Feed Stopper **Mar 2022- June 2022**

Developed a zero export device to control the feeding to wapda. Monitoring the real time constraints of power and load, the communication was established with inverter using MODBUS-485 protocols and operations were made.

Electric Bike **Dec 2021- Jan 2022**

Converted a 70cc bike to electric bike with extended mileage. Research and development was made to make it a complete product along with the range testing.

On Road Charging of Electric Vehicles **Mar 2021-Feb 2022**

Final year thesis on the compatibility of on road charging of EV's. How Capacitive charging method is efficient in the process of charging the Electric Vehicles.

Humanoid Robot **May 2020- Dec 2020**

RF based self-defensive humanoid robot with image processing.

SEMESTER PROJECTS

- **Linear Battery Cut-Off Circuit for Solar Charger**

  This project implemented a solar battery charger, along with an embedded battery cutoff circuit. The cut-off circuit was developed using only linear components.

- **Line Follower Robot**

  This project implements a Line follower robot using Arduino Uno 328P board. Programming of the robot is done in C language at Register Level.

- **AM based Wireless Communication Module**

  The project implemented an AM communication system, with wireless transmission and reception.

- **Arduino Based DC Motor Starter and Current Controller**

  The project implemented the generic manually operated starter circuit for DC motors on Arduino Uno 328P. The Arduino Uno started the DC motor, while limiting inrush current below rated motor current. It also controlled the current in the entire duration of motor's operation.