

WAQAS JAVAID

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Professional Summary:

Enthusiastic FPGA, Altium, MATLAB, Python, AutoCAD, Verilog & VHDL and Electrical Maintenance Engineer with 5 years of experience maintaining electrical systems.

Talented leader, communicator and conflict manager with good multitasking and organizational skills. Proficient in MATLAB, C++, C, and Circuit design.

Work Experience:

Electrical and Electronics Engineer, at Service industries Limited Gujrat, Pakistan |
October 2019 – April 2021

- Maintenance of Electrical and Electronics Operations Including Electric Heaters, DC Power supplies, AC Power supplies, PLC Programming and Maintenance, PCB and Circuit Board Repairing, Proximity Sensors repairing, Desma-Germany based PLC software trouble shooting, Electrical Wiring installation, DC Gear Motors Repairing, AC Induction Motors Repairing, MS Office, AutoCAD.
- Project performed for System Efficiency--Replacement of Electrical Heaters into Steam water for Heating purposes to save Electrical Cost .
- Audit Officer for Electrical and Electronics Operations in field and Assures the safety of Workers.

Electrical and Electronics Engineer at Fiverr, UPwork, Remote jobs |
January 2019- Current

- 5+ Years' Experience of Altium and proteus circuit design, C++/C coding, MATLAB Programming/Simulink, Verilog and VHDL, Timing analysis of FPGA, AutoCAD Based projects
- FPGA Xilinx Verilog, VHDL, System Verilog and Hardware Implementation
- Electrical and Electronics Circuit design including schematics, PCB on Altium Software with Troubleshooting.
- Microcontroller (PIC, 8051), Arduino, Automation and Control System Projects
- Worked flexible hours; night, weekend, and holiday shifts.

Embedded Systems Engineer Intern at National Electronics Complex of Pakistan
Islamabad, Pakistan | July 2017 – August 2017

- LABVIEW Simulation + MATLAB+ Hardware Implementation
- Engineered software components for automation hardware such as microcontrollers and sensors.
- Electronics Circuits design and PCB design of multilayers using FLOWCODE, Proteus Software, Circuit design and Altium Software.

Technical Skills:

MATLAB coding | MATLAB Simulink | GUI app development | Altium design for PCB multilayers | Schematics with footprints | Python programming | AutoCAD | Arduino Programming | Simulation | Proteous schematics design | PLC Ladder Logic | Verilog | VHDL | Timing analysis FPGA | C++ | C | Anylogic software | MultiSim Software | Logisim Software Simulation | Design & test analog and digital system | Advanced design software (ADS) | PIC Microcontrollers | MS Office

Education

- a. Bahria University Islamabad campus, Pakistan. B.Sc. Electrical Engineering, (Electronics), 2014-2018
- b. Punjab College Gujrat, Pakistan HSSC Pre-Engineering, 2013
- c. Govt. Millat High School, Beowali, Gujrat, Pakistan. Secondary School Certificate, 2011

PROJECTS

1. "Restaurant Automation Using Waiter Robot developed with Arduino and IR sensors".
2. Brain Tumor identification and segmentation using MATLAB image processing. In which patient's data used as input images and MATLAB algorithm able to detect and identify the tumor part of tissues. Accuracy of detection 98%.
3. Wound detection and segmentation algorithm developed in Python algorithm. Accuracy of detection 95%.
4. Power detector with Digital to Analogue circuit using **Altium**, schematics and PCB design.
5. Smart Grid and Microgrid design including PV, renewable energy sources, Fault detection, line transmission and Battery management system (BMS) Energy storage system development in MATLAB Simulink model.
6. Vehicles and lanes detection in Traffic system development using Yolo V4 algorithm in MATLAB code.
7. Simulation and Hardware implementation of Fuzzy Logic (FL) Maximum Power Point Tracking (MPPT) used in photovoltaic system. MATLAB Simulink model was developed.

LANGUAGES

- **Punjabi** – Mother tongue
- **Urdu** – National Language (Excellent reading, writing and speaking)
- **English** – Reading, writing and speaking