



Muhammad Burhan Jabbar

Electrical Engineer

To utilize my expertise in the field of electrical engineering and implement my innovative ideas and creative mind toward IC Design.

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📍 Peter-hille-weg 13, B406, Paderborn, Germany

EDUCATION

Master in Electrical Systems Engineering University of Paderborn

10/2019 - Present

Paderborn, Germany

Courses

- Circuit & Systems Design
- Modeling and Simulation
- Solar Electric Energy Systems
- Energy Transition

BSc Electrical (Computer) Engineering COMSATS University, Islamabad

08/2014 - 09/2018

Abbottabad, Pakistan

Courses

- Electric Circuits Analysis
- Electronics
- Control Systems
- Microprocessor Systems and Interfacing

WORK EXPERIENCE

Graduate Research Assistant University of Paderborn

04/2022 - 07/2022

Paderborn, Germany

PV2HEAT to Mongolia (www.pv2heat.com)

Achievements/Tasks

- Integration and Testing of Temperature Sensors
- Integration and Testing of Heat Meters & Electricity Meters
- Coding the Raspberry Pi-4 and validating Sensor
- Integration of data with volkszaehler.org

Shipping employee Amazon Logistik Oelde GmbH

11/2021 - 12/2021

Oelde, Germany

Achievements/Tasks

- Quality Check
- Single and Multi Packing
- Robot-Bin Inspection

Work Student Atelier Textiles

01/2020 - 03/2021

Ratingen, Germany

Achievements/Tasks

- Website Maintenance
- International Customer Co-ordination
- Creating Presentations using MS Power Point
- Documentation using MS-Word

SKILLS

C/C++

Python

CAD

Matlab

LTspice

Proteus 8

MS PowerPoint

MS Office

Effective Team Player

Effective Communication

Arduino

SQL

Html

PROJECTS

Nano-Electronics PLL 11.6 GHz (Candance Virtuoso). (05/2021 - 10/2021)

- Design of cross-coupled VCO at 11,6 GHz.
- Design of Charge Pump and Frequency Divider.
- Design of Phase and Frequency Detector(Transistor Level).
- Layout Design for CC-VCO, CP, and PFD.

Electronics Voting Machine. (10/2017 - 09/2018)

- Programming of Arduino Mega and Ethernet Shield.
- Calibration of Finger Print Sensor.
- Algorithm for whole project.
- PCB design and Prototype Testing.

ORGANIZATIONS

IEEE (02/2021 - Present)

Pakistan Engineering Council (11/2018 - Present)

WORKSHOPS

Internet of Things & Arduino

IEEE and COMSATS

Proteus Simulation and PCB Design

"THE" Society

MATLAB and Multi Sim

IEEE CIIT Abbottabad Student Branch

Arduino, Robotics, Proteus Simulation and PCB Design

WiBotics and COMSATS

LANGUAGES

English

Native or Bilingual Proficiency

German

Elementary Proficiency

Urdu

Native or Bilingual Proficiency