MUQADAS RASHID

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Education

BEEE | NUST-PNEC KARACHI CAMPUS   **EXPECTED IN JUNE 2026**

- Major: Power Electronics

HSSC | BAHRIA COLLEGE KARACHI CAMPUS   **2022**

- Major: Pre-Engineering

SSC | BAHRIA MODEL SCHOOL KARACH   **2020**

- Major: Computer Science

Experience

ELECTRICAL TEAM MEMBER | FORMULA ELECTRIC RACING NUST-FERN   **SEP 2022 - SEP 2023**

- Received the 2023 **FS participation certificate** from the **IMechE**.
- I represented my team on the "***Subh Ka Samaa***" morning show.

SOFTWARE TEAM MEMBER | NUST ROBOTICS & AI   **APR 2024 - SEP 2024**

- Worked on Arduino programming

INTERNSHIP | NAVAL RESEARCH & DEVELOPMENT INSTITUTE-NUST   **OCT 2024 – MAR 2025**

- Worked on different industrial projects

PROJECTS

- LED-Based **Tachometer**.
- **Automatic Cutoff Charging** Circuit with PCB Design and interface.
- **Heart Rate Monitor** using Optical Sensing.
- **Inverter circuit** with less than 5% THD.
- **Solar tracking** for solar by the help of self-designed and tuned **Analog PID controller** for DC motor
- 100 kW **DC Motor Drive** with **SCR-Based** Armature Voltage Control and Regenerative Braking
- PLL-Based **FM Receiver** Using GNU Radio

LICENSES & CERTIFICATIONS

- IBM INTRODUCTION TO AI
- Python Seekho Challenge
- Digital Skills for professionals
- Pakistan Sustainability week- EXPO CENTRE
- Safety in the Utility Industry
- ADVANCED MICROSOFT EXCEL

SKILLS & ABILITIES

- Research
- Complex Problem Solving
- Project Management
- Responsible for work
- Self-motivated and directed
- Enthusiast and hard working

SOFTWARES

- PROTEUS
- MATLAB
- MULTISIM
- PSIM
- GNU-RADIO