

Abida Munir Butt

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EXPERIENCE

Read Foundation Girls College Pallandri

Mar. 2023 – Present

STEAM Lab Coordinator

Pallandri, AJK

- Manage robotics, Scratch programming, electronics, and control systems lab activities for students.
- Coordinate STEAM events, technical presentations, project activities, and academic procedures.
- Monitor project timelines, support team performance, and ensure successful delivery within scope.

SCO – Special Communications Organisation

Aug. 2018 – Sep. 2018

Intern

AJK, Pakistan

- Gained practical exposure to CDMA/Transmission networks, SPM, and Linkkey systems.
- Assisted in risk assessment, project performance monitoring, and technical workflow understanding.
- Supported training activities related to project lifecycle and operational procedures.

PROJECTS

Intelligent Disease Detection from Medical Images

MS Research Project

- Developed CNN-based deep learning models for automated multi-disease detection from medical images.
- Improved model performance using dataset augmentation, hyperparameter tuning, and architecture refinement.

Energy Sharing & Management among Prosumer Collectives

BS Final Year Project

- Designed a cost-effective energy sharing and management system for prosumer collectives.
- Implemented energy optimisation algorithms and validated system performance through simulation.

EDUCATION

Mirpur University of Science & Technology

2019 – 2022

MS in Electrical Engineering | CGPA: 4.0/4.0

Mirpur, AJK

- **Research:** Experimental analysis of charcoal briquettes from pine tree needles.

Mirpur University of Science & Technology

2015 – 2019

BS in Electrical Engineering | CGPA: 3.98/4.0 | Gold Medalist

Mirpur, AJK

- **Research:** Home automation system using FPGA.

SKILLS

Programming : Python, MATLAB, Verilog, VHDL

Tools : Autodesk Fusion 360, MS 365

Teaching & Coordination : Robotics, Scratch Programming, STEAM Lab Management, Event Organisation

CERTIFICATIONS

PEC Licensed Engineer

Gold Medalist – BS Electrical Engineering

LANGUAGES

Urdu : Native **English :** Professional