



ENGR MUHAMMAD ARSLAN NASIR

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OBJECTIVE

Become a good researcher in my field by working with world-renowned Professors to develop more critical thinking and problem-solving skills for uncovering new knowledge and discoveries.

RESEARCH WORK

a. Educational Research Projects

➤ **Separation of Water from oil by Electrostatic method and studying its properties**

In MS Electrical Engineering (Power), we have developed a compact electrostatic coalesce that enables the online separation of water from crude oils has been developed. Fundamentals of the coalescence process as functions of various parameters such as excitation frequency, voltage, oil flow rate, etc. are studied.

➤ **Smart Gas Management System (BS ELECTRONIC ENGINEERING)**

We have developed a system that is used to automate the heater and geysers to prevent gas leakage for domestic as well as commercial purposes. Our objective is to provide a safety indication device that would save the lives of people. Our system is based on Bluetooth, a Gas sensor, and a Pressure sensor, these all work together to help domestic home appliances which are heaters and geysers.

b. Semester Projects

- Ac to Dc Converter (Power Electronics).
- Amplitude Modulator (Communication System).
- Traffic Signal System (Linear Circuit Analysis).
- Speed Checker (Microcontroller Processing).
- Digital Clock (Digital Logic Design).
- Metal Detector (Electronic Circuit and Design).
- Scientific Calculator (FPGA).

EDUCATION

- a. Master of Science in Electrical Engineering (Power), HITEC University **(3.27/4.00 CGPA)**
- b. Bachelor of Science in Electronic Engineering, Bahria University **(2.21/4.00 CGPA)**

EXPERIENCES

Junior Electronics Engineer (New Strength Solutions, Taxila) [11/2019 – 12/2020]

Electrical engineer design, develop testing, and supervising the manufacture of electrical equipment such as power generation equipment. Conducted functional and performance testing of electronic components and devices. Participated in design reviews and contributed to continuous product improvement efforts.

Administrative Officer (New Strength Solutions, Taxila) [12/2020 – 08/2022]

Handle administrative tasks like answering telephone calls, scheduling meetings, preparing reports, and filing documents. They may also be responsible for managing inventory, maintaining company records, handling budget and office reporting, invoicing, and providing customer service.

Senior Lecturer (Al Aziz Leaders School and College, Taxila) [08/2022 – 02/2023]

Senior Lecturer often carries administrative duties that include activities such as developing independent or team-taught Courses, producing teaching materials and methodologies, and training or supervising lectures, related activities and teaching associates.

Student Affairs Officer (HITEC University, Taxila) [02/2023 – To be]

Ensure university participation in HEC Zonal Sports events and coordinate with relevant authorities. Foster student engagement by encouraging active participation in on-campus and external activities. Maintain discipline and ensure compliance with university rules, regulations, and the student code of conduct. Identify and support students facing personal, academic, or social challenges, providing guidance or referring them to relevant university services. Maintain records of student complaints, disciplinary actions, and grievances.

ACHIEVEMENTS AND SKILLS

1. Technical Skills

- **Microsoft Office** (Word, Excel, Power Point & Access)
- **GMWIN Program** (PLC Programming)
- **Languages** (C & C++),
- **Visual Studio** (Programming Tool)
- **Proteus** (Circuit Implementation Tool)
- **MATLAB**

2. Achievements

- Received **1st Prize** in recognition of outstanding teaching performance at AL-Aziz Leaders School and College, September 26, 2022.
- **Certificate of Achievement** awarded in recognition of Contribution as an Organizer during the **9th Olympiad at HITEC University**, held from May 15 to 17, 2024.

- **Certificate of Appreciation** in recognition of service as an Organizer during the **HITEC University Recruitment Drive 2024**.
- **Certificate of Achievement** awarded in recognition of Contribution as an Organizer during the **10th Olympiad at HITEC University**, held from April 15 to 17, 2025.
- **Certificate of Appreciation** in recognition of service as an Organizer during the **HITEC University Recruitment Drive 2025**.
- **Certificate of Appreciation** in recognition of contribution as an Organizer of the **Inter Departmental HITEC Sports Battle 2024-2025**.

REFERENCES

Dr. Syed Kashif Imdad

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Dr. Muhammad Ali Mughal

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