MUHAMMAD AHSAN

ELECTRICAL AND ELECTRONICS ENGINEER

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OBJECTIVE

As a fresh Electrical and Electronics Engineer, my objective is to utilize my knowledge and skills to contribute to the development and growth of a company while gaining valuable experience in the field. I am seeking a challenging role that will allow me to apply my theoretical knowledge and practical skills in designing, implementing, and maintaining electrical systems and components. Additionally, I aim to work collaboratively with a team to solve complex engineering problems and deliver innovative solutions that exceed client expectations.

EDUCATION

MASTERS OF ENGINEERING PRACTICE | MURDOCH UNIVERSITY (PERTH - WESTERN AUSTRALIA)

FEBUARY 2024 – PRESENT

Currently pursuing a Master of Engineering Practice at Murdoch University in Perth, Western Australia, with a focus on Smart Industrial Control and Intelligent Industrial Control. Gaining comprehensive knowledge and practical skills in modern industrial automation and control systems, including IoT integration, advanced control strategies, and real-time data analytics for predictive maintenance and operational efficiency. Engaged in developing machine learning algorithms for adaptive control, integrating artificial intelligence for decision-making in industrial operations, and ensuring cybersecurity in automated systems. Actively participating in hands-on projects, collaborating with industry professionals, and conducting research to advance expertise in robotics and advanced manufacturing technologies.

B.Sc. ELECTRICAL AND ELECTRONICS ENGINEERING | GIRNE AMERICAN UNIVERSITY (NORTHERN CYPRUS-TURKEY)

JUNE 2017 – FEBRUARY 2023

As an Electrical and Electronics Engineering graduate, I have gained a strong foundation in principles and practices of electrical engineering, including circuit analysis, electronic devices, and power systems. I have experience with various tools and technologies used in the field, such as CAD software, programming languages, and testing equipment. Additionally, I have developed strong problem-solving, critical thinking, and communication skills through my coursework and projects. I am eager to apply my knowledge and skills to contribute to a company's success and continue to learn and grow as a professional engineer.

PREE-ENGINEERING (INTERMEDIATE) | BEL COLLEGE (KARACHI, PAKISTAN)

SEPTEMBER 2014 – SEPTEMBER 2017

As a 12th standard pre-engineering student, I had gained a strong foundation in mathematics, physics, and chemistry. I had developed an interest in electrical and electronics engineering and was excited to pursue this field for my future studies. Through coursework and hands-on projects, I have gained experienced in circuit analysis and programming. I was so much eager to continue learning and developing my skills in this field and had committed to pursuing a career in electrical and electronics engineering to make a positive impact on society.

EXPERIENCE

ELECTRICAL ENGINEER| AL-BARAKAH GROUP OF CONSTRUCTION (KARACHI - PAKISTAN)

25TH SEPTEMBER 2023 – 15TH FEBUARY 2024

As an Electrical Engineer at Al-Barakah Group of Construction in Karachi, Pakistan, I was responsible for designing and supervising electrical systems for various commercial and residential construction projects. My role involved conducting feasibility studies and cost estimations, collaborating closely with architects and contractors to ensure adherence to project specifications and timelines. I implemented rigorous quality control measures to guarantee the safety and efficiency of electrical installations. Additionally, I managed a team of technicians and electricians, providing technical guidance and overseeing their work to ensure high standards of execution.

TRAINEE ENGINEER| MAKKAH ENGINEERING SERVICES (KARACHI - PAKISTAN)

5TH MARCH 2023 – 25TH JULY 2023

As an Electrical Trainee Engineer at Makkah Engineering Services, I immersed myself in Electrical and Electronics Engineering. I designed power systems, worked on PLC, motors, solar panels, and breakers, and contributed to HVAC control. This hands-on experience enriched my skills and applied theoretical knowledge to practical projects.

INTERN | MUSTAFA HACI ALI GROUP OF COMPANIES (NORTHERN CYPRUSTURKEY)

JULY 2022 – AUGUST 2022

It was an opportunity for me as an Electrical and Electronics Engineering Intern that I learned about the responsibilities for conducting design calculations, developing schematics, and performing layout design. The work included the development of a power distribution system, power electronics design, PLC, Electrical Motors, Soft Starters, Solar Panels, Contactors, Breakers of various type and component selection, and the development of an HVAC control system.

SKILLS

- PLC Ladder Logic
- AutoCAD
- C++ Programming Language
- Microsoft 365
- Control Systems
- Problem Solving
- Communication Skills
- Fully familiar with PROTEUS SCHEMATIC to draw circuit diagrams.
- Power Transmission Management and High voltage Techniques
- PCB Design Software
- Electrical Measurements
- Team Work

UNIVERSITY PROJECTS

GRADUATION PROJECT 1 | SOLAR BASED WIRLESS CHARGING POWER BANK

Developed a solar-based wireless charging power bank that provides a sustainable and convenient solution for charging electronic devices. Integrated wireless charging technology and a solar panel to harness energy from the sun and store it in an internal battery. Implemented a microcontroller to monitor the charging process and manage power flow for safe and efficient charging and cut amenity electrical costs by 20%. Presented to 4 college board members that approved the plan.

GRADUATION PROJECT 2 | WIRELESS BATTERY CHARGING SYSTEM

Researched and designed a wireless battery charging system using a microcontroller for efficient and convenient charging of electronic devices. Utilized electromagnetic induction to transfer power wirelessly to the battery of the device. Integrated a microcontroller to manage the charging process, control the power flow, and monitor the battery status for safe and efficient charging. Presented to 4 college board members that approved the plan.

ACTIVITIES

Designing and implementing new electrical systems and components. Troubleshooting and repairing electrical systems and equipment. Conducting experiments and simulations to improve electrical performance. Collaborating with cross-functional teams to develop innovative solutions. Staying up-to-date with industry trends and emerging technologies. Participating in professional development and networking events. Contributing to open-source hardware and software projects.