Syed Sohaib Shakeel

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• Pakistan

BS Electronics

Recent Electronics graduate major in electronics devices and designing with internship experiences, seeking a challenging role to apply theoretical knowledge and practical skills in electronic solutions development. Dedicated to contributing effectively and driving innovation in a dynamic environment.

Professional Summary:

- Proficient in Python, C++ for software development.
- Experienced in VHDL and Verilog for FPGA and ASIC design.
- Skilled in utilizing simulation tools such as Multisim, Proteus, and Xilinx ISE.
- Strong foundation in electronics and computer science.
- Track record of successful project completion.
- Committed to staying updated with emerging technologies.
- Eager to contribute to innovative projects and drive business success.

EMPLOYMENT HISTORY

Communication Lab Intern – *National Institute of Electronic (NIE)* *0*1 / 2024 - 03 / 2024

- Spearheaded an innovative project aimed at modernizing techniques for managing patients with ineffective breathing conditions.
- Developed and implemented cutting-edge ideas to revolutionize patient care in respiratory health.
- Collaborated with a multidisciplinary team to devise and execute novel strategies for improving respiratory support systems.
- Utilized advanced technologies and techniques to enhance the diagnosis, monitoring, and treatment of patients with breathing difficulties.
- Conducted thorough research and analysis to identify gaps in existing methodologies and propose effective solutions.
- Demonstrated creativity and ingenuity in problem-solving to address complex challenges in respiratory care.
- Successfully integrated modern approaches into traditional medical practices, resulting in improved patient outcomes and quality of care.

Projects

Final Year Project – *Robotic Car used for landmines detection and localization*

- Spearheaded the development of a cutting-edge remotely controlled robotic car designed to detect and localize landmines in high-risk environments, significantly advancing safety measures and humanitarian initiatives.
- Engineered a sophisticated hardware configuration for the robotic car, seamlessly integrating powerful motors, specialized sensors, and a precision microcontroller unit (Arduino) to ensure optimal performance and control.
- Leveraged advanced technologies including Bluetooth and GPS modules, along with a metal detector, to enhance the car's capabilities for accurate detection and localization of landmines, enabling proactive risk mitigation.
- Implemented the L293D motor drive shield to efficiently drive the motors, optimizing the robotic car's mobility and maneuverability in challenging terrains, thereby maximizing its effectiveness in hazardous environments.

Course Project – *Finger-Print Door lock*

- Utilized Arduino as the central processor for a DIY fingerprint lock system.
- Programmed Arduino to manage fingerprint verification and control the locking mechanism.
- Developed programmable features for enrolling and managing multiple fingerprints.
- Offered a reliable and convenient alternative to traditional key or password-based locks.
- Leveraged the distinct and immutable nature of fingerprints for enhanced security.

Course Project – *Multi-function Arduino Car*

- Developed a fully automated car leveraging Arduino ATMEL processor and a suite of sensors for enhanced functionality.
- Implemented obstacle avoidance, Bluetooth control, and voice control features for seamless operation.
- Utilized Ultrasonic sensor and Bluetooth module for precise sensing and wireless control capabilities.
- Enhanced motor control using L293D motor drive shield, ensuring smooth and efficient movement.

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PROFESSIONAL SKILLS

- C++, Python, JavaScript, Html, CSS, Verilog & VHDL, Assembly Language
- Xilinx ISE, Vivado, Proteus, Matlab, Microwind, Multisim, Anaconda,

EDUCATION

Comsats University Islamabad– *02 / 2020 – 02 / 2024*
Bachelors of Electronics

LANGUAGE COMPETENCIES

- English: Fluent (speaking, reading, writing)
- Urdu: Native (speaking, reading, writing)