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| Syed Tajwer Husnain  **Electrical Engineer (PEC # Elect/51806)** | | | |
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| |  | | --- | | **CONTACT** |   **Address:**  P 4594 Street # 1 Ashraf pura # 2 Mansoorabad Faisalabad  **Phone:**  03232351003 (Primary)  03347883723  **Email:**  Tajwer.husnain@gmail.com   |  | | --- | | **TECHNICAL SKILLS** |  * C/C++ Programming * OOP * Data Structures & Algorithms * Assembly Language * Proteus ISIS & ARES * Keil µV4 * Verilog & Xilinx ISE * MATLAB * Used ATMEL and ARM technology based Microcontrollers (8051, Arduino, STM32f407)  |  | | --- | | **PROFESSIONAL SKILLS** |  * Team Player * Leadership * Good Communication skills * Self-Motivated * Time Management  |  | | --- | | **QUALIFICATIONS** |   **BS Electrical Engineering**  SEECS NUST Islamabad  2011 - 2015   |  | | --- | | **LEADERSHIP ACTIVITIES** |  * Member of NUST adventure Club * Member of NUST Community Service Club. |  |  | |  | | --- | | **EXPERIENCE** |   **Al Khwarizmi Institute Of Computer Science (KICS) UET Lahore | Research Assistant**  October 2017 – Present  As research assistant I worked on a Project of Audio Surveillance & Gunshot Detection for Punjab Safe City Authority. Project was approved by Safe City and has been deployed in Lahore on more than 300 sites. Following were the key responsibilities   * Firmware development. * Hardware development (PCB Designing) * Testing and commissioning of hardware & software   **Sitara Institute of Management & Technology, Faisalabad |**  **Instructor Electronics**  2015 – 2017  As an Instructor For Electronics I taught following courses to DAE and BS Engineering Technology Classes.   * Analogue Electronics & Communication Systems * Microcontroller Programming & Applications * Computer Architecture & Basic Electronics      |  | | --- | | **ACADEMIC PROJECTS** |   **Smart Street Lightening System:**  We designed an IoT network of street poles that communicates, controls & adjusts the brightness of LEDs automatically, based on the movement of any vehicle. Main objective for the project was to make the current system more energy efficient. The poles communicated over ZigBee, and adaptively controlled the brightness of the pole the vehicle is moving towards.  **Semester Projects:**   * FPGA based Mini Processor * ECG based biometric identification (Using Matlab) * Encoding And Decoding of file using Huffman Algorithm * Scrabble Game (using OpenGL in C++ (OOP)) * Line Following Robot  |  | | --- | | **Professional Certification** |   **Al Khwarizmi Institute Of Computer Science (KICS) UET Lahore | Graphics Designing** October 2018 – March 19 |