**Muhammad Ammar Saeed**

**ELECTRICAL ENGINEER (Electronics)**

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**OBJECTIVE:**

To enhance my skills in communication and embedded system design field and to solve real world problems so that I can help the society.

**TECHNICAL SKILLS:**

* Knowledge of Cisco routers, Switches, Mikrotik routers, Ubnt devices.
* Knowledge of ubiquiti devices, such as powerbeam m5, nanostation, rocketdish, loco m5, sector antennas.
* Office work at comsats internet services.
* UPS monitoring APC, aircontrol monitoring, field support to customers at comsats internet services.
* Knowledge and implementation of basic embedded communication protocol like UART on Arduino platform.
* Knowledge of intel based Computer Architecture (x86).
* Knowledge and Implementation of x86 assembly language.
* Knowledge of in C/C++ language.
* Projects related to Digital and analog communication and their implementation on Matlab.

**EDUCATION:**

* **Electrical Engineering (Electronics), Bachelor (BEE) Sep 2012 – May 2016**

**The University of Faisalabad, Faisalabad, Pakistan**

**Obtained CGPA: 3.47/4.00**

**Obtained percentage: 79.40 %**

Focuses on basic electronics, Digital Design, embedded system design which includes C language programming, Computer architecture knowledge and implementation, Analog electronics, Communication systems, Embedded system based applications on Arduino.

* **Pre- Engineering, Higher Secondary School Sep 2010 – Aug 2012**

**DPS & C, Faisalabad, Pakistan**

**Obtained Percentage: 80.54 %**

Studies focused in engineering subjects such as Mathematics, Algebra, Physics and Chemistry.

* **Matric, Secondary School Sep 2008 – Aug 2010**

**PAEC Foundation School, Faisalabad, Pakistan**

**Obtained Percentage: 84.38%**

Studies focused on basic subjects such as Mathematics, Physics and Chemistry.

**PROJECTS:**

* **Ubiquitous smart charging of electric vehicles: Final year project-2016**

I made an electric car charging system which demonstrates the smart billing of electric cars that is, the consumer will pay the charges of electricity whether he is charging his car at his friend’s house or some other place. We interfaced Bluetooth modules with electric meter and car separately and give an identification to each Bluetooth module of car. Electric meter identifies the id of the car and deduct the electricity charges from the account of car owner which was demonstrated on an android app. Microcontroller I used in this project was Atmel-328p which was integrated on Arduino board.

* **LCD drive using 8051 microcontrollers:** **Semester Project-2015**

I derived 16x2 LCD with 8051 series microcontroller in which I used assembly and C programming language together. I have also controlled the brightness, contrast of the LCD and show the desired strings on the module at the same time.

* **Water level detector: Semester Project-2014**

I made water level detector with Arduino board and water level sensor which detects the level of water. I interfaced sensor with microcontroller, sensed the analog reading, converted it to digital and made the decision on the basis of reading.

**OTHER PROJECTS:**

* LED light using discrete components.
* Variable DC power supply using full wave rectifier.
* 500 W, 3 phase Transformer.

**INTERESTS:**

* Embedded Systems
* Computer programming
* Sports
* E-Gaming

**EXPERIENCE:**

* Worked at silverback pvt (ltd).
* Currently working at comsats internet services.