

Syed Abdulrehman Ali Shah

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OBJECTIVE:

A passionate professional working towards a bachelor's degree in Computer Engineering at COMSATS University. Aspiring to use my knowledge of Electronics, Robotics and Signal Processing as well as programming to satisfy the job needs.

SKILLS:

- **Hardware Descriptive language (Verilog)**
- **Experienced working on FPGA's (Final Year Project)**
- **Firm knowledge and Understanding of Embedded Systems.**
- Have a solid grasp on Arduino IDE, Atmel Studio in Assembly as well as C Programming.
- Skilled in Simulation Software (ALTIUM DESIGNER, PROTEUS, OrCAD, XYLINX).
- Signal processing in MATLAB.
- Proficient in Computer Programming in JAVA and C++.

RESEARCH/WORK EXPERIENCE:

IT Support Engineer (July 2019 – Present)

- Data Centre management to provide services to clients. Such environments include Linux CentOS and MySQL.
- Complaint Resolution, Troubleshooting and Technical Support to Client stats extraction via MySQL and Linux.
- Preparing reports and stats.
- System and Network Monitoring through Monit.
- Working as a Vendor with all Telcos and vendors in VAS Market.

Undergraduate Research Assistant (spring 2018-Present)

- Worked at Computational Intelligence Research Lab (CIRLab) which is dedicated to find solutions for problems in Parallel processing using technologies such as GPU's and FPGA's.
- In this lab I accelerated the speed of matrix inversion by using Gauss Jordan elimination algorithm for Parallel Magnetic Resonance Imaging (pMRI) and implement it on FPGA.

Internship at HyperNym

- From 29th June to 10 August 2018, worked as an Embedded Firmware Intern and was actively involved in projects and tasks assigned to me, worked on GSM and GPS modules developing a firmware that deploys a real time GPS tracker.

Publications

Recently Submitted a Conference paper in ESMRMB 2019, Conference.

- **Title (A reconfigurable hardware architecture design of Gauss Jordan elimination method to accelerate parallel MR Image reconstruction.**

EDUCATIONAL BACKGROUND:

Comsats University Islamabad – Bachelor’s of Electrical Computer Engineering, (CGPA 2.95)

- **Major subjects:** Computer Architecture, Computer Organization, Microprocessors, Embedded Systems, Digital Signal Processing, Communication Systems, Microprocessors, Data Networks, Control Systems, Circuit Analysis, Electronics and Advanced Calculus Algebra, Basic programming, OOP, Data Structures and algorithms.

BEACONHOUSE SCHOOL SYSTEM

(2013-2015)

- Completed my A Levels with 2 B’s and 2 C.
- I received a high achievers medal from beaconhouse.

SAINT MARY’S ACADEMY

(2011-2013)

- Completed my O level’s with 6 As, 2 Bs and 1 C

PROJECTS:

A reconfigurable hardware architecture design of Gauss Jordan elimination method to accelerate parallel MR Image reconstruction

- Designed on Verilog, Tested and verified on FPGA
- A group of 2 people worked on this Project

Wirelessly controlled SUMO ROBOT and Line Following Robot.

- A group of three members designed and built a SUMO ROBOT to participate in COMSATS ROBIAN competition held annually.
- A group of two members designed and built a LINE FOLLOWING ROBOT as a semester project.

Electrical and Electronic Projects

- A group of 3 members designed and developed different projects for our degree namely Heat Sound Darkness and Object detectors and Audio Amplifier.

Different programming Software’s

- I have made different programming projects for my degree like Hospital and Book store management systems.

EXTRA CURRICULAR ACTIVITIES:

- I have participated as a volunteer in 2 different MUN’S in security as well as in finance.
- I have participated in different society events as a marketing security or finance member during the sports week of each semester.
- Currently I am a marketing member of a society named COMECS in my university.

REFERENCES:

- Available upon request.