



Muhammad Ibrahim

Electrical Engineer

moh.ibrahim.pk@gmail.com

+923339816906

Peshawar, Pakistan

mohibrahim.weebly.com

@ibrahimuhammd

I am an energetic, self-motivated and enthusiastic graduate. Currently, I have done B.Sc. in Electrical Engineering from CECOS University, Peshawar, Pakistan. I take up challenges as opportunities, and enhance my skills by utilizing my abilities to the maximum. I also have good management skills. My objectives are to do more study, research and work in fields such as artificial intelligence and data sciences etc.

Educational Background

2018-Present	CECOS University of IT & Emerging Sciences, Pakistan MSc Electrical Engineering - Communication
2013-2017	CECOS University of IT & Emerging Sciences, Pakistan BSc Electrical Engineering (GPA: 3.85/4.0) – Gold Medalist Thesis Fast Pattern Recognition through a CAM based Information Detection Hardware
2011-2013	Peshawar Model Degree College, Pakistan Higher Secondary School Certificate (FSc) Pre-Engineering (75.63%)
2009-2011	Forward Model School, Pakistan Secondary School Certificate (SSC) Science (77.04%)

Professional Experience

2017-Present	Famous Electric Company, Karachi Position Project Engineer Electrical Projects 1. Coronet Food (Pvt) Limited, Hattar Industrial Estate, Haripur. 2. Rehman Medical College, Hayatabad, Peshawar.
Aug-Sep 2016 6 weeks	Internship Pakistan Telecommunication Company Limited (PTCL) Saddar Exchange, Peshawar.

Professional Affiliation

2017	Membership with Pakistan Engineering Council (PEC No. Elect/63254)
2015-17	General Secretary of IEEE student branch, CECOS' IEEE
2014-17	Membership with Institute of Electrical and Electronics Engineers (IEEE)

Awards/Achievements

2018	Awarded with Gold Medal in CECOS Convocation 2018
2017	Awarded for best Senior Design Project
2015-16	Participant in "IEEE Pakistan Student/Young Professional/Women in Engineering Congress (PSYWC) 2015 & 2016"
2015	Volunteer for "International Conference on Emerging Technologies"
2015	Organizer of "Engineer's Job Fair 2015" arranged by PEC
2015	Organizer of "Leadership in Engineering Workshop" arranged by PEC
2013-17	Merit Scholarship Holder

Technical Skills

Software	Xilinx, MATLAB, LabView, NI Multisim, HFSS, MS Office
Programming Languages	Verilog, Python, HTML, CSS, C/C++
Operating Systems	Windows, MAC

Research Experience

Senior Design Project in BSc Electrical Engineering

2017 **Title** | Fast pattern recognition through a CAM based information detection hardware

Description: Established pattern recognition systems are deployed using conventional RAM. A Content addressable memory is a specific type of computer memory that can perform fast search operations in one clock cycle. Using CAM for pattern recognition effectively improves the performance of any pattern recognition system that previously used RAM. This research proposes an alternative way to design a Content Addressable Memory by using existing RAM resources of an FPGA device. Our proposed method uses two FPGA RAMs and a control logic circuit to emulate the functionality of a CAM.

Our proposed CAM based system design offers a lot of advantages over the established RAM based techniques, such as improved speed and low power consumption. We have used our proposed content addressable memory model to compute histograms for Local Binary Patterns (LBP). By using CAM (that we have designed) for LBP computation we reduce the amount of time required to compute LBP histogram and hence improve the speed of the system.

Tools Used: Xilinx, MATLAB, Verilog, FPGA

I am interested to continue my further education and research in the field of artificial intelligence and data sciences etc. Which are very interesting subjects for me.

Languages

- English ~Fluent
- Urdu ~Fluent
- Pashto ~Native
- Chinese ~Beginner

References

Dr. Sarmad Ullah Khan

Assistant Professor | Electrical Engineering Department
CECOS University, Peshawar, Pakistan

✉ sarmad@cecos.edu.pk

🌐 www.researchgate.net/profile/Sarmad_Khan

in [pk.linkedin.com/in/sarmadullahkhan1](https://www.linkedin.com/in/sarmadullahkhan1)

Adnan M. Niazi

Lecturer | Electrical Engineering Department
Adjunct Lecturer | Institute of Integrative Biosciences
CECOS University, Peshawar, Pakistan

✉ adnan@cecos.edu.pk

🌐 www.adnaniazi.com

Links

🌐 www.mohibrahim.weebly.com

✉ moh.brahim.pk@gmail.com

📞 +923339816906

🐦 @ibrahimuhammd

in [linkedin.com/in/muhammadibrahim1](https://www.linkedin.com/in/muhammadibrahim1)