



Rida Maamoor

Date of birth: [REDACTED]

Nationality: [REDACTED]

CONTACT

[REDACTED]

[REDACTED]

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ABOUT ME

I am a passionate individual who is keen to learn about the wonders this world holds within. I am very motivated to explore further my domain of studies, i.e., Electrical Engineering. I am looking forward to the opportunities to fulfill my curiosity by offering my expertise and skills in the said domain.

WORK EXPERIENCE

17 SEP 2015 – CURRENT Sahiwal, Pakistan

Lab Engineer COMSATS University Islamabad, Sahiwal Campus

- Co-supervise the FYPs and semester projects
- Lab work conducted for the following main subjects in the ECE Department:
 - Artificial Intelligence
 - Control Systems
 - Digital Signal Processing
 - Principles of Communication Systems
 - Signals and Systems
 - Electric Circuit Analysis (DC & AC)
 - Numerical Computatio
- Member of Outcome-based Education (OBE) & Continual Quality Enhancement (CQI) Committee
- Departmental academic and non-academic events organizer
- Collaborate and assist the faculty members to modify, design, and develop lab experiments in coherence with the curriculum and the latest research.
- Assisting the students with their technical, troubleshooting, and communication skills

Address COMSATS University Islamabad, Sahiwal Campus, Comsats Road Off GT Road, ECE Department, A Block, 2nd Floor, 57000, Sahiwal, Pakistan

1 AUG 2014 – 15 SEP 2015 Sahiwal, Pakistan

Physics Lecturer 1 year

- Taught Physics to Intermediate and conducted the relevant experimental work

EDUCATION AND TRAINING

10 OCT 2016 – 21 JUL 2020 Islamabad, Pakistan

Master of Science in Electrical Engineering National University of Science and Technology, Islamabad

Thesis Description: The aim of this work is to reduce the order of a non-symmetrical multi-input-multi-output sampled-data controller while preserving the closed-loop dynamics. Cross gramian based model order reduction is achieved by using frequency weights to minimize approximation error in certain frequency spectrum.

Address National University of Sciences & Technology (NUST) Campus, Sector H-12, Islamabad, 44000, Islamabad, Pakistan | **Website** <https://nust.edu.pk/> |

Field of study Electrical Engineering | **Final grade** 3.80/4.00 | **Thesis** Reduced Order Sampled-Data Controller

20 SEP 2010 – 7 JUN 2014 Islamabad, Pakistan

Bachelor of Electrical (Telecommunication) Engineering National University of Science and Technology

FYP: Image-Guided Blended Near-Neighbour Interpolation and its Applications in Oil Exploration

We developed an algorithm that performed image interpolation guided by a secondary grayscale image which defined the structure and guided the interpolation process. We explored the applications in oil exploration and subsurface mapping of the earth's layers.

Address National University of Sciences & Technology (NUST) Campus, Sector H-12, Islamabad, 44000, Islamabad, Pakistan | **Website** <https://nust.edu.pk/> |

Field of study Electrical (Telecommunication) Engineering | **Final grade** 3.35/4.00

HONOURS AND AWARDS

7 JUN 2014 National University of Science and Technology, Islamabad

The Best Engineering Project

Final Year Project was awarded the certificate for designing and developing "The Best Engineering Project" in the Session 2014 in the discipline of Electrical (Telecommunication) Engineering at Military College of Signals, Rawalpindi.

20 FEB 2016 The Punjab Educational Endowment Fund (PEEF)

Certificate of Scholarship

In recognition of my academic achievements in the graduation examination held in 2016, I was awarded PEEF scholarship for a whole Master of Science in Electrical Engineering degree.

PROJECTS

Depth Extraction using Stereo Vision for a Self Driving Car - Cosupervisor

This project utilizes stereo vision to extract depth information for a self-driving car, enabling 3D mapping for navigation and obstacle avoidance.

Real Time Obstacle Detection and Avoidance using Image Processing - Cosupervisor

The robotic car uses an advanced object detection system based on the YOLO V3 algorithm, adapting its speed and navigation based on the distance and presence of objects in its path.

Classification of Induced and c-section deliveries using deep learning frame work - Cosupervisor

A deep learning model based on a CNN architecture accurately distinguishng between induced and C-section deliveries, aiding medical decisions and improving patient outcomes through automated medical data analysis.

Voice Control Humanoid Robot - Cosupervisor

Voice-controlled humanoid robot using Arduino technology, Bluetooth, and precise servo motors for seamless interaction and movement through voice commands.

WORKSHOPS AND CERTIFICATES

25 JUL 2020 – 25 JUL 2020

Product Design against Failures

2 hour Online Continuing Professional Development (CPD) Short Course at COMSATS University Islamabad Sahiwal Campus

30 SEP 2019 – 30 SEP 2019

Energy System Optimization

1 Day Continuing Professional Development (CPD) Short Course at COMSATS University Islamabad Sahiwal Campus

30 APR 2019 – 30 APR 2019

Managing Health Safety at Work Places

1 Day Continuing Professional Development (CPD) Short Course at COMSATS University Islamabad Sahiwal Campus

22 JUL 2017 – 22 JUL 2017

SPSS-23 & Structural Equation Modeling using Amos-22

1 Day Workshop at College of Electrical and Mechanical Engineering, National University of Science and Technology

31 MAR 2016 – 1 APR 2016

Outcome Based Education (OBE) System

2 Day Workshop at COMSATS Institute of Information Technology Sahiwal Campus

24 JUN 2013 – 16 AUG 2013

Internship Certificate - LMK Resources Pakistan (Pvt.) Ltd

3 MAY 2013 – 3 MAY 2013

Satellite Communication System Design

1 Day Continuing Professional Development (CPD) Workshop at Military College of Signals, National University of Science and Technology

2008

International Kangaroo Mathematics Contest

29 NOV 2007 – 29 NOV 2007

Youth Forum organized by OCF/CRC, Social Welfare Department Punjab, Lahore in collaboration with UNICEF

DIGITAL SKILLS

Digital Skills - Test Results

 Information and data literacy	ADVANCED Level 5 / 6
 Communication and collaboration	ADVANCED Level 5 / 6
 Digital content creation	ADVANCED Level 6 / 6
 Safety	ADVANCED Level 6 / 6
 Problem solving	ADVANCED Level 5 / 6

Results from [self-assessment](#) based on [The Digital Competence Framework 2.1](#)

My Digital Skills

DIGITAL SKILLS

Communication (Skype, Zoom, Google Duo, Hangouts) | Microsoft Office (Word, Excel, PowerPoint, Teams) | Google Suite (Doc, Slides, Form, Sheet, Drive) | Social Media (Facebook, Twitter, WhatsApp) | OneDrive | Internet Surfing (Technical and non-technical)

TECHNICAL SKILLS

MATLAB | Simulink | Python (Beginner) | C++ | LTspice | Proteus | Microsoft Office

NETWORKS AND MEMBERSHIPS

6 NOV 2015 - CURRENT Pakistan Engineering Council, Islamabad

● **PEC - Registered Engineer**

RECOMMENDATIONS

● **Dr. Saqib Saleem** Senior Colleague and Ex Head of Department

Designation: Data Scientist
Organization: University of Calgary

Email saqib.saleem1@ucalgary.ca |

● **Dr. Umair Zulfiqar** Research Mentor

Designation: Post-doctorate
Organization: Shanghai University, China

Email umairzulfiqar@shu.edu.cn |



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