Qudsia Memon

Home : Ghulshan-e-Habib Qasimabad, House No.# C-43, Tower Street behind Phoenix School, 71000, Hyderabad, Pakistan

Email: qudsiamemon@yahoo.com   **Phone:** (+92) 3313542129

Skype: qudsiamemon

LinkedIn: https://www.linkedin.com/in/qudsia-memon-964a83121/

Date of birth: 26/10/1993   **Nationality:** Pakistani

EDUCATION AND TRAINING

[28/03/2016 – 24/03/2018]

Master of Engineering in Electronic System

Mehran University of Engineering and Technology

City: Jamshoro
Country: Pakistan
Field(s) of study: Engineering, manufacturing and construction: *Electricity and energy , Electronics and automation*
Final grade: 3.67
Thesis: Short-Term Power Production Forecasting in Smart Grid Based on Solar Power Plants
Majors Studied: Advanced Embedded System Design, Electronic Instrumentation, Modelling & Simulation of Dynamic Systems, Advanced Integrated Circuit Design, Micro Electronics, Power Electronics & Drives, Communication Systems, Advanced Digital Design, Modern Trends in Electronic System Design and IC design & Manufacturing Techniques.

[02/01/2012 – 17/02/2016]

Bachelor of Engineering in Electronics

Mehran University of Engineering and Technology

City: Jamshoro
Country: Pakistan
Field(s) of study: Engineering, manufacturing and construction: *Electronics and automation*
Final grade: 87.58% / 3.89
Thesis: Self-Driving and Driver Relaxing Vehicle
Majors Studied: Basic Electrical Engineering, Computer Programming, Electronic Workshop, Basic Electronics, Computer Aided Engineering Drawing, Electrical Circuits, Measurement & Instrumentation, Digital Electronics, Amplifier & Oscillators, Electrical Machines, Sequential Circuit Design, Integrated Electronics, Power Electronics, Signals & System, Feedback Control System, Microprocessor & Interfacing Techniques, Digital Instrumentation System, ASICS, Analog & Digital Communication, Digital Signal Processing, Computer Communication & Networking, Embedded System Design, Telecommunication System & Applications, Neural Networks & Fuzzy Logic, Automation & Robotics.

PUBLICATIONS

[2016]   **Self-Driving and Driver Relaxing Vehicle**

Q. Memon, M. Ahmed, S. Ali, A. R. Memon, and W. Shah, "Self-Driving and Driver Relaxing Vehicle," in *2nd International Conference on Robotics and Artificial Intelligence (ICRAI)*, Rawalpindi, Pakistan, 2016

[2017]

Short-Term Power Production Forecasting in Smart Grid Based on Solar Power Plants

Q. Memon and N. Çetinkaya,"Short-Term Power Production Forecasting in Smart Grid Based on Solar Power Plants," International Journal of Engineering and Applied Sciences (IJEAS), vol. 4, no. 12, pp. 48-52, December 2017

[2022]

Design and Development of Multileg Locomotive Robot for Life Threaten Areas

Noor Fatima Memon, Saifullah Samo, Imran Ali Bhand, **Qudsia Memon**, Yumna Memon, "Design and Development of Multileg Locomotive Robot for Life Threaten Areas." In QUEST research journal by Quaid-e-Awam University of Engineering, Science & Technology. (2022)

[2022]

Performance Analysis of Threshold-based Scheduling Systems Through Discrete Time System

Mahnoor Memon, Wajiha Shah, **Qudsia Memon,** "Performance Analysis of Threshold-based Scheduling Systems Through Discrete Time System." Engineering Science and Technology International Research Journal, VOL.6, NO.2, JUNE 2022

[2022]

Performance Analysis of Discrete-time Queuing System through Arriving Decision Method

Maleeha Memon, Wajiha Shah, **Qudsia Memon,** "Performance Analysis of Discrete-time Queuing System through Arriving Decision Method." Engineering Science and Technology International Research Journal, VOL.6, NO.2, JUNE 2022

WORK EXPERIENCE

[16/09/2019 – Current]

University lecturer in engineering

Mehran University of Engineering and Technology

City: Jamshoro
Country: Pakistan
To teach mostly undergrad students, supervise/Co-supervise their final year project. Other responsibilities involve some committee work and lab in charge.

[12/04/2017 – 04/10/2017]

Assistant Manager

Pakistan Telecommunication Company Limited

City: Hyderabad
Country: Pakistan

Dealing with and resolving the communications breakdowns in the Wireless Department. Managing/ supervising the staff responsibilities and their duty timings.

[14/03/2016 – 13/03/2017]

Management Associate

Pakistan Telecommunication Company Limited

City: Hyderabad
Country: Pakistan
Public dealing and addressing all type if public complaints in the Business Operation department .
Ensure the proper access of Complaint Management System (CMS).

Monitoring of MSUs in the switching department.

[19/06/2015 – 17/07/2015] ## Summer Intern

Hyderabad Electric Supply Company LTD

City: Hyderabad
Country: Pakistan
To understand the working of the systems in the USAID department

[17/06/2013 – 09/07/2013] ## Summer Intern

Pakistan Civil aviation Authority

City: Hyderabad
Country: Pakistan
To observe the working of the center.

PROJECTS

[11/2021 – 10/2022] ### RC (Remote Controlled) based Autonomous Electric Vehicle

I have 12 months of research experience overseeing a project that aimed to address the difficulties of commuting in urban areas, where traffic congestion can cause significant delays and make it challenging to travel even short distances. This issue is particularly problematic for individuals who rely on manual cars, such as those with disabilities, as they may struggle to navigate through heavy traffic and may need to drive at slower speeds. To alleviate this problem, we developed an "RC autonomous vehicle" that can be controlled remotely and help drivers and individuals with disabilities travel more easily and efficiently.

[11/2021 – 10/2022]

Implementation of secure anti-theft automotive system with blind spot warning system

Twelve (12) months of research experience in supervising a project which focused on a smart vehicle was developed that can decrease the chances of accidents.

[11/2021 – 10/2022] ### Spy Camera Based RC (Remote Controlled) Plane

Twelve (12) months of research experience in supervising a project which focused on the RC Plane along with the SPY Camera that can be used in different areas to identify spy through live streaming of camera being monitored by the person controlling the RC Plane.

[11/2020 – 10/2021] ### Smart waste water treatment plant using Distributed Control System (DCS)

Twelve (12) months of research experience in supervising a project which focused on the implementation of a cost-effective smart waste-water treatment plant using DCS to recycle the available water, remove contaminants (pollution or poisonous substance) in sewage & drainage(storm-water) and convert into safe pure drinking water.

[06/10/2017 – 15/03/2018]

Short-Term Power Production Forecasting in Smart Grid Based on Solar Power Plant

Six (06) months of research experience which focus on the prediction of the short-term behavior of the solar power plant on the basis of the amount of power production

[04/10/2015 – 26/10/2016] ### Self Driving and Driver Relaxing Vehicle

Twelve (12) months of research experience which focus on the Traffic on roads. To avoid this problem and relieve driver in that hard and tiring situations an "Automatic Vehicle Follower and Distance Maintainer" was developed that will keep the pre-specified distance from front vehicle and move when distance is greater than specified threshold

distance. Another application was that one vehicle will follow another vehicle even if the vehicle is many kilometers ahead of following vehicle. The source vehicle will get help from Google maps and find route to destination location, which is moving

HONOURS AND AWARDS

[24/11/2022] **National level FYDP Financial award Awarding institution:** Pakistan Engineering Council (PEC)

An undergraduate Final year project "RC based Autonomous Electric Vehicle" which I supervised, received a national level FYDP financial award at NFC Institute of Engineering and Technology Multan.

[2022]

National Grassroots Information & Communication Technologies Research Initiative Fund

Awarding institution: Ministry of Science and Technology, Pakistan

An undergraduate Final year project "Implementation of secure anti-theft automotive system with blind spot warning system" which I supervised was funded under the NGIRI-2020

[2015]

National Information Communication Technologies Research & Development Fund

Awarding institution: Ministry of Information Technology & Telecom, Pakistan

My final year undergraduate project, "Self Driving and Driver Relaxing Vehicle," received funding under the National ICT R & D fund 2015

[02/09/2014] **Strong-TIES Awarding institution:** Erasmus Mundus

Received a scholarship to study one semester of B.E from University of Limerick, Ireland through exchange program

[06/10/2017] **Mevlana Exchange Program Awarding institution:** Turkey

Received a scholarship to complete M.E research studies from Selcuk University, Konya Turkey through exchange program

CERTIFICATIONS

[15/04/2020 – 02/06/2020] **Python Data Structures**

Link: https://coursera.org/share/76e00da7aca6b50d0a8aa6b33f80551b

[01/04/2020 – 07/05/2020] **AI For Everyone**

Link: https://coursera.org/share/718f78b28c51f7e3760cf885dbb05f79

CONFERENCES AND SEMINARS

[04/10/2019 – 06/10/2019]

New Faculty Boot Camp (Effective Teaching, Learning, Research and Mentoring)

US-Pakistan Centers for Advance studies in Water, MUET Jamshoro Pakistan

[01/11/2016 – 02/11/2016] **2nd International Conference on Robotics and Artificial Intelligence (ICRAI),** Rawalpindi, Pakistan

DIGITAL SKILLS

Microsoft Office | Social Media | Basic of Python | Basic knowledge in programming in C++ | Engineering Design & Simulation: AutoCAD, MATLAB, Multisim, Proteus

SKILLS

Job-related skills

- Office Management
- Public speaking
- Creative thinking
- Working with data
- Reviewing, reporting, and research
- Capability to learn the software environment according to the job requirement.

Communication and interpersonal skills

Good communication skills gained through participation in seminars, conferences, internships and by giving lectures. interpersonal skills developed by working as Lab-Incharge, class advisor , leading & managing a team, and by strategic thinking.

LANGUAGE SKILLS

Mother tongue(s): Sindhi

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Urdu

LISTENING C1 **READING** B1 **WRITING** B1

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

RECOMMENDATIONS

Supervisor/Mentor

Name: Dr. Wajiha Shah
Phone number: (+92) 3363588369
Email: wajiha.shah@faculty.muet.edu.pk

Dr. Wajiha works in the Department of Electronics Engineering, Mehran University of Engineering and Technology, Jamshoro, Pakistan. She was my Bachelor's as well as Master's Project Home supervisor

Supervisor

Name: Assist. Prof. Dr. Nurettin Çetinkaya
Phone number: (+90) 5356186134
Email: ncetinkaya@selcuk.edu.tr

Dr. Nurettin Çetinkaya works in Seluck University, Konya, Turkey. He acted as my Master's Project Host supervisor.

Colleague

Name: Dr. Attiya Baqai
Phone number: (+92) 3453539557
Email: attiya.baqai@faculty.muet.edu.pk

Dr. Attiya is my colleague in Mehran University of Engineering and Technology, Jamshoro, Pakistan since 2019.