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Strengths:

Impact Factor: 21.169Research publications: 18Citations: 233

- H-Index: 07

- i10-index: 05

- Conference Secretary ICETECC`22

 9 Projects Funded by ICT R&D

- 1 Project Funded by SUPARCO

Expert in programming & system Designing

- Python Programmer

- Deep Learning

PhD Research Topic:

Deep Learning Based Loop Closure Detection from Different Viewpoints and Occlusions

Final Year Projects:

M.E: Traffic Congestion and Incident Warning using V2I Communication

B.E: File Sharing and Information Dissemination in VANETs

Date of Birth: 2nd January,

1990

Passport No: AY0202764

Height: 5'-9"

Nationality: Pakistani

Permanent Address:

Bungalow # 7, Block B-5, near Police Choki, Mehran University Employees Cooperative Housing Society, Jamshoro, Sindh, Pakistan

E-mail:

azam.memon@admin.muet.edu.pk

Electronic Engineer

EDUCATION

1. Ph.D (Control Science & Engineering) - 2023

Shanghai Jiao Tong University, Shanghai, China (QS-51 World Ranking 2023-24)

2. M.E (Electronic System Engineering) - 2016

Mehran University of Engineering and Technology (MUET), Jamshoro, Pakistan Passed with **3.67 CGPA**

3. B.E (Electronic Engineering) - 2012

Mehran University of Engineering and Technology (MUET), Jamshoro, Pakistan Passed with **87.22%** Percentage (1st Division – **CGPA: 3.91**)

Secured 3rd Position

3. HSC (Pre-Engineering) - 2007

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, HYDERABAD, Pakistan

Passed with 68.4% marks (1st Division)

4. SSC (Science Group) - 2005

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, HYDERABAD,

Passed with 80.9% marks (1st Division)

FIELDS OF INTEREST

✓ Deep Learning, Computer Vision, Visual Simultaneous Localization & Mapping (vSLAM)

✓ Automation and Robotics

✓ Python, MATLAB, Android, PHP, JavaScript, JQuery

TECHNICAL SKILLS:

Embedded System Design:

✓ Worked on uP Board, Raspberry Pi, Arduino, LabView, Android,

AI/ML/ Deep Learning:

✓ Python, Machine Learning, Deep Learning, Artificial Intelligence

✓ Tensorflow, Keras, Anaconda

Image Processing:

✓ Skilled in MATLAB Programming with good Knowledge in Data Acquisition, Image Processing & Signal Processing Toolboxes

✓ Python

Web Development (Full Stack Developer):

✓ HTML/ CSS / Bootstrap/ Javascript/ Jquery

✓ MySQL, PHP

Android App Development:

✓ Basic 4 Android, Flutter (Beginner)

EXPERIENCE: (10+ YEARS)

✓ INSTRUMENTATION ENGINEER (BPS-18)

Working as an Instrumentation Engineer at Mehran UET, Jamshoro on Regular basis since March 20, 2020

✓ INSTRUMENTATION ENGINEER (BPS-17)

Worked as an Instrumentation Engineer at Mehran UET, Jamshoro on Regular basis from March 20, 2015 to March 19, 2020

✓ INSTRUMENTATION ENGINEER (on Contract basis)

Worked as Instrumentation Engineer at Mehran UET, Jamshoro, From 24th August 2012 to March 19, 2015

ACADEMIC ACHIEVEMENTS

- √ 3rd Position in B.E (Electronic Engineering)
- ✓ Winner in Software Competition at Micro-Maze 2011 (April 2011)
- ✓ 2nd Runner Up in All Pakistan Website Development Competition "Know My Pakistan" by NUML, Islamabad
- ✓ 2nd Runner Up in Science fair by BISE, Hyderabad

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Electronic Engineer

RESEARCH PUBLICATIONS:

(18)

- ✓ Viewpoint-Invariant Loop Closure Detection Using Step-Wise Learning With Controlling Embeddings of Landmarks IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEM, 23 May, 2022 (I.F: 9.551)
- ✓ S-VIT: Stereo Visual-Inertial Tracking of Lower Limb for Physiotherapy Rehabilitation in Context of Comprehensive Evaluation of SLAM Systems
 IEEE TRANSACTIONS ON AUTOMATION SCIENCE AND ENGINEERING, 06 August, 2020 (I.F: 4.938)
- ✓ Loop Closure Detection using Supervised and Unsupervised Deep Neural Networks for Monocular SLAM Systems Robotics And Autonomous System, 08 February, 2020 (I.F: 2.825)
- ✓ Using Crowed-Source Based Approach for V2X Communication For Vehicular Ad Hoc Network Chinese Automation Congress (CAC), 2019
- ✓ Performance Analysis of Location based Smart Catastrophe Monitoring System using WSN - International Journal of Wireless Personal Communication, 02nd April, 2018 (I.F: 0.951)
- ✓ Interactive Physiotherapy: An Application Based on Virtual Reality and Bio-feedback International Journal of Wireless Personal Communication, 05th Feb, 2018 (I.F: 0.951)
- ✓ Chest Radiographs TB Detection using Gabor Filter and SVM Classifier 2017 4th International Conference on "Computing for Sustainable Global Development," 2017, pp. 1231–1236.
- ✓ A Hierarchical Approach to Home Energy Management Systems Int. Conf. Recent Trends Comput. Sci. Electron., vol. 9, no. December, 2016.
- ✓ Self-Driving and Driver Relaxing Vehicle
 2nd IEEE International Conference on Robotics and Artificial Intelligence
 (ICRAI 2016) 01-11-2016 to 02-11-2016
- ✓ Kinect as a Generalised Interface for Games and PC Control Internal Journal of Wireless Personal Communication, 23rd Nov, 2016 (I.F: 0.701)
- ✓ Real time Implementation of Path planning Algorithm with Obstacle Avoidance for Autonomous Vehicle 3rd 2016 International Conference on "Computing for Sustainable Global Development", 16th – 18th March, 2016
- ✓ **GSM Based Advanced Noticeboard Display**3rd 2016 International Conference on "Computing for Sustainable Global Development", 16th − 18th March, 2016
- ✓ Internet of Things (IoT) Enabled Smart Animal Farm

 3rd 2016 International Conference on "Computing for Sustainable Global Development", 16th − 18th March, 2016
- ✓ Experimental Evaluation of Vehicle-to-Vehicle Based Data Transfer 2015 International Conference on Information and Communication Technology Research (ICTRC), 17-19 May 2015
- ✓ An Electronic Information Desk System For Information Dissemination In Educational Institutions - 2015 2nd International Conference on "Computing for Sustainable Global Development", 11th - 13th March, 2015
- ✓ Efficient Gestures and Voice Based Computing using Hardware Implementation International Journal of Enhanced Research in Science Technology & Engineering (I.F: 1.252)
- ✓ A New way to use Computer with Gestures & Images 26th IEEEP Students' Seminar
- ✓ Generation of Electricity through Solar Cell and Thermocouple 26th IEEEP Students' Seminar

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Electronic Engineer

CONFERENCES AND WORKSHOPS

- ✓ Research Article in 2019 Chinese Automation Congress (CAC)
- ✓ Certificates for Author in 26th IEEEP Students' Research Seminar (March 2011)

FUNDED RESEARCH PROJECTS:

(9)

Funded by: National ICT R&D Fund

- Advanced Human Gesture Controlled Application Using Microsoft Kinect (2016)
- 2. Stair Climbing Robot (2016)
- 3. Environment Mapping and WAR driving of Hyderabad City (2016)
- 4. Energy Harvesting through Radio Frequencies (2015)
- 5. Self-Driving and Driver Relaxing Vehicle (2015)
- 6. Development of Search Algorithm for Path Planning of Mobile Robot (2014)
- 7. Tele-Manipulation of Master Slave Robotic Arm using Data-glove (2013)
- 8. Robotic Network for Bomb Defusal and Disaster Aid (2013)

Funded By SUPARCO:

9. Design & Development of Yaw & Pitch Control of large wind turbines & their safety Mechanisms using PLC (2015)

PROGRAMS ORGANIZED:

- ✓ Organized an International Conference on Emerging Technologies in Electronics, Computing and Communication (ICETECC`22)
- ✓ Organized A one-day Seminar on Professional Career Development, "Groom Your career with Innovative Talks" – Oct 5, 2021
- ✓ Conducted Lab on Arduino Microcontroller in 1st International Workshop on Embedded Systems and Its Applications
- ✓ Did live coverage of Mehran University Alumni Association Annual Session 2014 and Broadcasted it world wide
- ✓ Certificate as "Coordinator" for Organizing "Synergy`14"
- ✓ Certificate as "Organizer" Final Year Project Exhibition 2014
- ✓ Certificate as "Organizer" in 29th IEEEP All Pakistan Students' Seminar 2014

CERTIFICATES:

- ✓ Certificate as "Coordinator" for Arranging 2 weeks Internship program at Department of Electronic Engineering
- ✓ Certificate as "Organizer" in IEEE PSGWC 2013
- ✓ Certificate of Appreciation for Serving as a "Coordinator" in "Matlab Competition 2013"
- ✓ Certificate of "Coordination" in "Leaders Winter Internship Program 2013"
- ✓ Certificate of Participation as a "Course Coordinator" in "Two Days Handson Workshop on Silicon Labs Microcontroller Using C Language"
- ✓ Certificate of Participation as a "Organizer" in "National Engineering Exhibition (NEX`11)"
- ✓ Certificate of Participation as an "Organizer" in "MicroMaze 2011"
- ✓ Certificate for "Organizing" "IEEE Women in Engineering (WIE) Mentoring Session"
- ✓ Certificate of Participation in IEEEP Symposium 2014
- ✓ Certificate as "Organizer" in 29th IEEEP All Pakistan Students' Seminar 2014
- ✓ Certificate as "Organizer" in IEEE PSGWC 2013
- ✓ Certificate for "Organizing" "IEEE Women in Engineering (WIE) Mentoring Session"

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azam.memon@admin.muet.edu.pk

Electronic Engineer

CERTIFICATES:

- ✓ Certificate of Participation in "Two Days Hands-on Workshop on Programmable Logic Controller"
- ✓ Certificate of Participation as Author in Poster Session at IMTIC`12
- ✓ Merit Certificate for Securing THIRD Position in B.E Electronic Engineering
- ✓ Acceptance Letter from **2011 IEEE International Conference** on Signal processing, Communication and Computing (ICSPCC 2011), Xi'an China
- ✓ Certificate of Author for presenting Research Paper in "26th IEEEP Students' Research Seminar"
- ✓ Certificate as "Coordinator" for Organizing "Synergy`14"
- ✓ Certificate as "Organizer" Final Year Project Exhibition 2014
- ✓ Certificate of Participation in IEEEP Symposium 2014
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- ✓ Certificate of Author for presenting Research Paper in "26th IEEEP Students' Research Seminar"
- ✓ And Many More...