



Majid Riaz

Nationality: Pakistani **Date of birth:** 05/03/1994 **Gender:** Male

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Home: D-43,AWC housing colony , hasan abdal, Rawalpindi, 43600 Rawalpindi (Pakistan)

WORK EXPERIENCE

Research Fellow

UET Taxila

City: Taxila

Country: Pakistan

I'm working as a Co Supervisor for many Projects, here I do follow

- Commercial Projects
- Light Commercial Projects
- Domestic Projects
- Industrial Projects
- IT/Computer Engineering programming
- Immersive and realistic video analysis
- Innovate multimedia Data analyst
- Hardware/software expert

I have been monitoring and controlling data centers and Application projects in following here

- Database
- Server hosting
- Applications
- Working in Operating system environment such as windows and Linux
- Storage configuration such as hard drive and SSDs
- Purchasing
- Executions

Activity leader

Projects Completed

Can realistic and immersive videos improve perceptual and emotional experience of human?

Responsibilities: Visually appealing and immersive stimuli selection and generation, optimal representation to improve QeE, explicit and implicit data analysis.

QoE and perceptual experience analysis for High dynamic range videos

Responsibilities: Statistical analysis and simulation

Personality traits recognition using wearable bio-sensors

Responsibilities: bio-medical signals acquisition, preprocessing, features extraction and selection, Classification

Emotion prediction using multimodal physiological signals in response to novel multimedia technology

Responsibilities: EEG, GSR and PPG signals recording, Stimuli selection implicit and explicit analysis of acquired dataset, predictions at two class level, simulation using MATLAB and Python coding.

Implementation of automatic traffic light controller system

Responsibilities:

- CU Design
- HDL Coding of critical Data path and CU coding and making flowchart

Home automation or smart home through Internet of things (IoT)

Responsibilities: Uniquely controlled the automation of each individual application,

Noise removal from the EEG Dataset

Responsibilities: MATLAB code was written and overall classification accuracy was measured before and after implementing algorithms, Weka tool was used for classification of selected features.

Implementation of Video compression standard HEVC**Responsibilities:**

- Wrote test benches and created project with solution at primarily stage
- Verify the C system executes without error
- Run synthesis and obtained a set of results
- Analyze Results

Implementation of various instructions of ALU and RAM

Responsibilities: Designing instruction set, write code and test benches in Assembly and C languages and do simulation

Implementation of counter, decoder, Adder, subtracter and MUX and multiplier

Responsibilities: Write code for counter, decoder, various types of adders, multiplier, subtracter and MUX and evaluated the efficiency, output, cost, speed and other performance evaluating parameters.

Design and implementation of the Temperature sensor

Responsibilities: Design Analysis, bug control and validating the module after testing.

Technical Proficiencies:

- **Programming Languages** C, C++, Python, Java, MATLAB
- Arduino/Raspberry Pi
- **Assembly language programming** (Behavioral level, Data Flow Level, Gate Level, Switch Level)
- Object oriented design
- FPGA, VLSI and ASIC
- Internet of things (IoT)
- Embedded system
- Microprocessor
- Operation system (Windows, Linux)
- MS Word, MS power point MS Excel

Computer Science Lecturer

University of Education [08/09/2021 – 15/08/2022]

City: Ali Pur

Country: Pakistan

I was Computer science lecturer at university of education campus (Ali Pur College) . My areas of interest include advance Signal processing, Computer organization and Architecture, Operating system, Digital system and logic designs, image and video processing, neuronal signal processing

Lecturer

Govt Associate College of Commerce [07/01/2022 – 25/05/2022]

City: Ali Pur

Country: Pakistan

Senior Lab Engineer

Department of Computer Science Bahria University Karachi Campus [19/08/2021 – Current]

City: Karachi

Country: Pakistan

I am working in Bahria University Karachi campus as Senior lab Engineer and conducting labs and Final year projects. Lab being monitored by me includes Data science, OOP, Data Structure, Web system technology and Operating System.

EDUCATION AND TRAINING

MS

Computer System Engineering UET Taxila [24/09/2017 – 09/08/2021]

Address: 47080 Taxila

Website: www.uettaxila.edu.pk

BS

Computer System Engineering (PEC Reg# COMP/21278) UCET BZU Multan [27/09/2012 – 01/08/2017]

Address: 59300 Multan

Website: <http://www.bzu.edu.pk>

Intermediate

B.I.S.E D.G Khan [04/03/2009 – 08/09/2012]

Address: 32200 D.G Khan (Pakistan)

Website: <http://www.bidrdgkhan.edu.pk>

Matriculation

B.I.S.E D.G Khan [02/03/2007 – 01/08/2009]

Address: 32200 D.G. Khan (Pakistan)

Website: <http://www.bisedgkhan.edu.pk>

LANGUAGE SKILLS

Mother tongue(s): **Urdu**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

DIGITAL SKILLS

Google Drive / Microsoft Office / Google Docs / Social Media / Zoom / Power Point / Internet user / Organizational and planning skills / Analytical skills / Decision-making / Team-work oriented / Motivated / Critical thinking / Good listener and communicator / Responsibility / Creativity / Research and analytical skills / Written and Verbal skills / Flexibility / Excellent writing and verbal communication skills / Empathic listener / Cross cultural skills / Teamwork / Good Communication / positive thinking / leadership / Good time management / Detail-Oriented / Problem-solving / Ability to Work Under Pressure / flexible / Good at being proactive and efficient in high stress situations / Efficient multi-tasking

PUBLICATIONS

1. Emotional Experience Analysis in Response to HDR and SDR content

[2021]

- International conference on Quality of Multimedia Experience (QoMEX 2021), Canada

2. Emotion Recognition using Electroencephalography in Response to High Dynamic Range Videos

[2021]

• International conference on Information Technology (ICIT 2021), Jordan

3. High Dynamic Range Multimedia: Better Affective Agent for Human Emotional Experience

[2022]

MM-2022-04-0033 IEEE Multimedia

Journal article submitted in IEEE Multimedia on 12-08-2022

Link: <https://drive.google.com/file/d/1Ie0xq3PQMxy80Fxy9Oh05rFlmhNUSZ1/view?usp=sharing>

RESEARCH INTEREST

Physiological Signal analysis, Behavioral modelling, Emotion Recognition, Cognitive Psychology, Multimedia content Analysis, Human Computer Interaction

RECOMMENDATIONS

Supervisor

Name: Muhammad Majid

Phone number: (+92) 3345795765

Email: m.majid@uettaxila.edu.pk

Dr. M. Majid is associate professor at Computer Engineering department of university of engineering and technology Taxila, Pakistan.

Co-Supervisor

Name: Junaid Mir

Phone number: (+92) 3005188450

Email: junaid.mir@uettaxila.edu.pk

Dr. Junaid Mir is assistant professor at Electrical Engineering department of university of engineering and technology Taxila, Pakistan.