

# Umar Shahid

## Systems Engineer

Last update: April 18, 2023

Up-to-date version of CV is available at

<https://umarshahid.github.io/Profile/>

Residence: [🏠 B-17, Block-A, Taxila Road, Islamabad](#)

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C/C++	+++	MATLAB	++++	Python	+++	HTML	+++	CSS	+++	Latex	+++
MS	++++	MS	+++	MS	++++						
Word		Excel		Powerpoint							

## Professional Experience

### Research Center for Modeling and Simulation, NUST, Islamabad

Research Assistant

Oct 2019 – Oct 2020

Brain State Monitoring of Pilot During Flight with Head Mounted Device using Machine Learning.

Responsibilities:

- Data collection for EEG based brain state monitoring
- Descriptive data analysis and visualization using MATLAB
- Data classification and prediction using Machine and Deep Learning Techniques
- Assistance to Project Supervisor

AI, ML & DL   Neuro-ergonomics   Brain Computer Interface (BCI)   Electroencephalography (EEG)

## Education

### MS Systems Engineering, (Communication Systems and Networks)

National University Of Sciences and Technology (NUST), Islamabad

Sep 2018 – Oct 2020

Data Science   Neuro-ergonomics   Human Computer Interface (HCI)

### BS Information Technology, (Computer Sciences and Management)

The Islamia University of Bahawalpur (IUB), Bahawalpur

Sep 2018 – Oct 2020

Software Development   Artificial Intelligence

## Master's Thesis

EEG Based Mental Workload Assessment Using Machine Learning, NUST,

Islamabad

Under Supervision of Dr. Shahzad Rasool, Dr Adnan Maqsood & Dr. Ammar Mushtaq

Oct 2019 – Oct 2020

EEG is an objective assessment technique used to record brain activities to monitor brain states such as, stress, emotions, drowsiness and workload. In this research, EEG is employed to assess mental workload from human brain. We developed a pipeline for real-time EEG based mental workload assessment using deep & machine learning.

AI ML & DL Neuro-ergonomics Brain Computer Interface (BCI) Electroencephalography (EEG)

## Projects

- [Realtime Pipeline for EEG based Mental Workload Assessment](#) MATLAB R2019b - Dec 2019 - Oct 2020
- [Vehical Number Plate Recognition System](#) MATLAB R2014a - Mar 2018 - July 2018

Hobbies: Sketeching Book Reading Music Surffing Internet