

# Muhammad Ammar

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Age 23

## Education

### UNIVERSITY OF ENGINEERING AND TECHNOLOGY

*B.Sc. Mechatronics and Control Engineering*

Lahore, Pakistan

2017 - 2021

### GOVT. SHALIMAR COLLEGE

*F.Sc. Pre-Engineering*

Lahore, Pakistan

2015 - 2017

## Professional Experience

### ROBOTICS LECTURER

*Punjab Group of Colleges*

Lahore, Pakistan

Dec 2021 - Sep 2022

### PAKISTAN RAILWAY

*Intern (4-Weeks)*

Lahore, Pakistan

Sep 2020 - Oct 2020

- **Lifelong Learning:** Explored the working of engine and train wheel assembling part, hydraulic brake system, engine repairing, power distribution to located areas.

## Academic Experience

### BREAKING TEXT BASED CAPTCHA USING DEEP LEARNING

Breaking CAPTCHAs of different websites to maximum accuracy level

- A Chinese website (<https://my.cnki.net>) CAPTCHA was cracked using CNN (Convolutional Neural Network) reference to published article and gained accuracy upto 99%.
- NTS website having text-based captcha on sign-up/result page was cracked with 95% accuracy.

## Extracurricular Experience

### ASME (The American Society of Mechanical Engineers) UET, LHR

- **General Body Member:** Volunteer at Sky Lantern 2017 (An event by ASME UET held every year on the closing ceremony of Book Fair) and UET OLYMPIAD 2018 to perform different ground level tasks and to, especially, manage a huge crowd.

## Embedded Projects

PCB Design using Proteus, Wi-Fi Extender using Nodemcu, Online Attendance System using RFID, Wi-Fi Car, Automatic Door system using Motion Sensor, Home Automation, Hand Gesture Controlled Robot, Maze Solver Robot, Obstacle Avoidance Robot, Weighing Scale, Universal Gas Sensor

## Honors and Awards

### ONLINE COURSES

- Natural Language Processing in TensorFlow - DeepLearning.AI (Coursera)
- Convolutional Neural Networks in TensorFlow - DeepLearning.AI (Coursera)
- Machine Learning - Stanford University (Coursera)
- Neural Networks and Deep Learning - DeepLearning.AI (Coursera)
- ASP.Net Core 3.1 (FreeCodeCamp.org)

### AWARDS AND CERTIFICATIONS

- **I-Paint:** Certificate was awarded based on painting. *"Poverty and the environment of our society".* Lahore, Pakistan 2018
- **Robotics Exhibition:** Received Shield of "Member Organizing Committee". Lahore, Pakistan 2022

## Additional

- **Technical skills:** Web Development (HTML, CSS, JavaScript), SQL, Git, Electronic circuit simulation using modern tools including Proteus, Multisim, Logisim, Microprocessor's coding, Programming Languages (Assembly, C++, Python), Hardware design using ANSYS, MATLAB, AutoCAD & Solidworks.
- **Interpersonal skills:** Time Management, Positive Attitude, Consistency.

**Interests:** Electronics, PCB designing, Mathematics, Volleyball, Home Automation.