

# Jawad Qammar



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Sex: Male | Date of birth: 19/02/1996 | Nationality: Pakistan | Religion: Islam  
Mail: Al-Noor House, Lodhi Town, Sialkot Bypass, Gujranwala, Punjab, Pakistan

## OBJECTIVES:

To secure a challenging career with a dynamic progressive organization to utilize my abilities, knowledge, and personal insight with integrity to contribute to the development of the organization.

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## QUALIFICATION:

**Master of Science in Computer Engineering** (2018-2021)  
*University of Engineering and Technology, Taxila, Pakistan* CGPA: 3.29/4

**Program Description:** This master program was focused on digital system design and secure intelligent systems. In addition, students were taught critical thinking and problem-solving skills for research.

**Major Courses:** Machine Learning, Advance Topics in Computer Engineering, Embedded System and Application Design, Encryption Techniques.

**Master Thesis:** "Person Reidentification in Multi-Camera Network Using CNNs".

**Supervisor:** Dr. Waqar Ahmad

**Bachelor of Science in Computer Engineering** (2014-2018)  
*University of Engineering and Technology, Taxila, Pakistan* CGPA: 3.53/4

**Program Description:** This bachelor program was focused on integration of software and hardware systems. In addition, students were taught problem solving skills for developing computer systems.

**Major Courses:** Artificial Intelligence, VLSI System Design, Digital System Design, Control Engineering.

**Bachelor Thesis:** "Augmented reality in a shooting game with real robots".

**Supervisor:** Dr. Waqar Ahmad

**Higher School Certificate (Pre-Engineering)** (2012-2014)  
*Allied Science College, Gujranwala, Pakistan* Division: 1<sup>st</sup>

**Major Subjects:** Math, Physics, Chemistry

**Secondary School Certificate (Science)** (2010-2012)  
*Grammar Public School, Gujranwala, Pakistan* Division: 1<sup>st</sup>

**Major Subjects:** Math, Physics, Chemistry, Computer Science

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## WORK AND EXPERIENCE:

- Lab Engineer (HITEC University, Taxila, Pakistan)** (Sep 2019-Oct 2022)  
Assigned in Computer Engineering Department to conduct OBE System Based Labs of Computing Fundamentals, Object-Oriented Programming, Visual Programming, Systems Programming, Embedded Systems, Parallel & Distributed Computing, Microprocessor & Assembly Language and Computer Architecture & Organization.
  - Internee (PITC, Lahore, Pakistan)** (Jun 2016-Aug 2016)  
Assigned on load Data improvement Project (LDIP) to manage Data Center and Development of automatic reading infrastructure (AMI) and Digital meter Reading System (DMR).
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**CONFERENCE PAPER:**

- **Resolution Representation Based Person Re-Identification for Smart Cities Using Deep Neural Networks (DNNs).**

This paper is published in Intelligent Systems track in the proceedings of 10th International Conference on Information Technology (ICIT 2021) for Advanced Machine Learning and Deep Learning held by IEEE at Amman Jordan.

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**PROJECTS:**

- **Augmented Reality in a Shooting Game with Real Robots**

It is a 'first person shooter' style of game with real world graphics and real robots that you can control and watch through a mobile device or a personal computer.

- **AI Paper Checking System**

An automatic answer checker application that checks and marks written answers using artificial intelligence algorithm that verify answers and allocate marks accordingly as good as a human being.

- **Mobile Eye**

Mobile Eye is a project to develop a quadcopter/drone to monitor and observe the university premises remotely on a server. Theme is to replace the dedicated security mobile vehicle with an autonomous drone having a good quality camera

- **IoT- based Smart Refrigerator**

A smart refrigerator using IoT that can manage items or resources kept in it, save unnecessary cost saves food wastage by keeping track of all items stored in it.

- **I-Agriculture**

It is an automatic system in which we will take information and concrete values for water level and fertilizers using sensors. Then based upon gathered information, decision is made to perform relevant action through actuators.

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**HONORS/ DISTINCTIONS:**

- University Merit Scholarship (2014-2021)
  - Certificate of Appreciation Open House 2k15 (2015)
  - Certificate of Organizer Tech Salvo National Event (2015)
  - Certificate of Participation Anti-Corruption week (2014)
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**OTHER ACTIVITIES:**

- Team Lead of Bachelor Final Year Project. (2017-2018)
  - Finance Secretary at CBS UET Taxila and TRAC UET Taxila (2017-2018)
  - Organizing Head at ACM UET Taxila (2016-2017)
  - IT Co-Head at Comptech UET Taxila (2015-2016)
  - Executive Member at SIEP UET Taxila (2014-2016)
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**SKILLS:**

Java (Dr Java, Eclipse, NetBeans, BlueJ), C/ C++/ C# (Dev C++, Microsoft Visual Studio, CodeBlocks, Cuda, OpenMp), Python (PyTorch NumPy, Matplotlib). MySQL/ SQL (Microsoft Management Studio, Oracle), MATLAB (MATLAB, Simulink, Octave), Assembly, C (8086  $\mu$ -processor, 8051/AVR/PIC  $\mu$ -controllers, Emulator, Atmel Studio, Keil uVision, DOSBox, MPLAB, Code Composer Studio), Verilog/ HDL (ModelSim, Vivado HLS, Xilinx ISE), Development Boards (Arduino, Raspberry Pi, MTS-51 trainer, LaunchPad F28069M, Spartan 3, Basys 3), Circuit and PCB Designing (Proteus, PSpice, Ltspice, NI Multisim, Logisim, LabView, Microwind), Windows, Linux, MS Office Suite. GitHub, Shell Script, Data Visualization, HTML/CSS/JS, Adobe Ps/Corel Draw/Illustrator.

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**LANGUAGES:**

- Urdu: Mother Tongue

- English: Medium of Instruction
- Punjabi: Regional

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**INTEREST & HOBBIES:**

Table Tennis, Football, Chess, Travelling, Photography, Community Involvement, Internet Surfing, and Social Media.

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**REFERENCES:**

1. Name: **Dr. Waqar Ahmad**  
Position: Assistant Professor Computer Engineering Department  
Organization: University of Engineering and Technology, Taxila, Pakistan  
Email: waqar.ahmad@uettaxila.edu.pk
  2. Name: **Dr. Hafiz Adnan Habib**  
Position: Chairman Computer Engineering Department  
Organization: University of Engineering and Technology, Taxila, Pakistan  
Email: adnan.habib@uettaxila.edu.pk
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