

# ALAA IBRAHIM HUSSEIN

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Date of Birth: August 17, 1983

Nationality: Iraqi



## Objective:

Experienced Master of Engineering graduate with a specialization in Communication and Computer Engineering from Universiti Kebangsaan Malaysia (UKM) (2019-2021). Seeking a challenging position where I can leverage my academic background and professional experience to contribute effectively to innovative projects in the field of communication and computer engineering.

## Education:

- **Master of Engineering in Communication and Computer Engineering**  
Universiti Kebangsaan Malaysia (UKM), Malaysia  
2019 - 2021
- **Bachelor of Engineering in Communication Engineering**  
Iraq University College, Iraq  
2009 - 2013

## Work Experience:

- **Research Assistant**  
Iraq University College, Iraq  
2014 - 2017
  - Conducted research in repair for all Electronics lab. in college. .
  - Assisted faculty members in data collection, analysis, and documentation.
  - Contributed to research publications and presentations.
- **Assistant Lecturer**  
Iraq University College, Iraq  
2021 - Present
  - Deliver lectures and tutorials in electronics subject for second and third stage.
  - Provide academic support and guidance to students.
  - Participate in curriculum development and assessment activities.

**Skills:**

- Proficient in programming languages including C, C++, and Python.
- Strong understanding of communication protocols such as TCP/IP, UDP, and HTTP.
- Experience with digital signal processing techniques and algorithms.
- Knowledgeable in wireless communication technologies (WiFi, Bluetooth, LTE).
- Familiarity with embedded systems design and development.
- Excellent problem-solving and analytical skills.
- Effective communication and presentation abilities.
- Ability to work independently and collaboratively in multidisciplinary teams.

**Projects:**

- Digital signal processing system for biomedical during the Master's program.
- Design and implementation of temperature control room using Microcontroller during the Bachelor's Program.

**Researches**

- 1- Design and Implementation of a Miniaturized Filtering Antenna for 5G Mid Band Applications
- 2- Design and Implementation of an Injury Detection System for Corona Tracker
- 3- Developing a wristband to monitor Heartbeat and Temperature Using Internet of Things
- 4- A secure and scalable IoT home automation architecture with web and biometric control
- 5- Design and Implementation of an Accurate and Simple Remote Medical Store Monitoring System Using ESP32 Microcontroller-Based Wi-Fi and IoT Technology
- 6- Accurate Network Intrusion Detection using a Feedforward Neural Network and Bee Colony Optimization Algorithm