



# QUZAL MEHMOOD

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## EXPERTISE

- Embedded Systems
- Electrical Circuit Design
- Internet of Things (IoT)
- Web/Mobile Applications Development

## RESEARCH PUBLICATION:

- [Adoption of Lamport Signature Scheme to Implement Digital Signatures in IOT](#)

## EXPERIENCE

2018-06 – 2019-06

**EMBEDDED SOFTWARE DEVELOPER**, ALFAIN TECHNOLOGIES, LAHORE, PAKISTAN

Project: Corner Store MPOS iPad Application

- Hardware: Star Micronics MPOS
- Client Side: **React-Native**
- Server Side: **Node.js**

2019-08 – 2020-01

**SOFTWARE DEVELOPER**, TECHTICS, LAHORE, PAKISTAN

Project: MEDSHED (Hospital Management System)

Responsibilities:

Developed Client Side using **Angular**, consume Web APIs of **Asp .Net Zero** backend

## EDUCATION

2014-10 – 2018-08

**BS ELECTRICAL ENGINEERING**, INSTITUTE OF SPACE TECHNOLOGY (IST), PAKISTAN

CGPA: 3.06 / 4.00

2012-2014

**INTERMEDIATE**, PUNJAB GROUP OF COLLEGES, PAKISTAN

2012

**MATRICULATION**, SIR SYED MODEL SCHOOL, PAKISTAN

## PROJECTS

- **Studio IoT:** Internet of Things Development Platform  
A cross platform desktop application to design and configure any internet of things system with built in drag and drop components. Provides system executable file/Library supported by wide range of Mobile and Microcontrollers.  
Hardware: C and Python based micro-controllers  
Client Side: Electron (npm), React, jquery  
Server Side: Node.js, Mongo DB  
Communication Protocols: Web Sockets, TCP, UDP, Serial Communication, Bluetooth
- **[Arduino IoT Controller](#):** A Chrome Extension to Communicate with Microcontrollers  
Weekly Users: 1800 – 2000  
Supported Comm Type: WebSockets  
Client Side: Bootstrap, jquery  
Server Side: Node.js MongoDB
- **ThingsFly:** A WordPress Plugin for Internet of Things (IoT) Development  
IoT plugin for static Web pages. Drag and Drop Dynamic Components to Communicate with wide range of edge devices including Microcontrollers and Mobile Devices. Supports Communication between static pages of multiple hosts.  
WordPress Support: Classic Editor and Gutenberg Editor  
Frontend: React, Bootstrap, jquery  
Server Side: Php, MySQL and Node.js, MongoDB
- **[More Projects](#)** →

## SKILL SET

### MICROCONTROLLER DEVELOPMENT BOARDS

- Raspberry Pi
- Esp8266
- PIC16F877a
- Arduino
- LoPy4

### INTERNET OF THINGS (IOT) PROTOCOLS:

- MQTT
- WebSocket
- Bluetooth
- REST
- LoRa
- Wi-Fi

### PROGRAMMING LANGUAGES

- JavaScript
- Python

- C#
- C/C++
- Assembly and Machine Language
- Java
- Verilog

## **MOBILE APPS DEVELOPMENT**

### **FRAMEWORKS:**

- React-Native
- Flutter

### **IDES:**

- Android Studio
- VSCode
- XCode

## **WEB APPS DEVELOPMENT FRAMEWORKS**

- React (MERN Stack)
- Angular (MEAN Stack)

## **DATABASE:**

- MongoDB
- SQL

## **SERVER SIDE:**

- Node.js
- ASP.NET

## **ACHIEVEMENTS:**

- [Android Microcontroller Application – 100k + downloads](#)
- [IOT Chrome Extension – 1000+ weekly users](#)
- [Winner of ESA Act in Space 2018](#)
- [Finalist UNIDO Clean Tech Programme for SMEs 2017](#)
- [Galactic Problem Solver NASA Space Apps 2016](#)

**IELTS: 7.5**

**VISA TYPE: SUBCLASS 476**

**WORKING RIGHTS: FULLTIME**