

# Muhammad Memon

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## PROFESSIONAL SUMMARY/CAREER PROFILE

- Committed third-year Computer Engineering undergraduate with a strong academic background.
- Developed skills in problem-solving, teamwork, and effective communication through diverse experiences.
- Proficient in tools such as Excel and Word, with hands-on experience in technology-focused projects.
- A passion for technology and innovation, with an interest in data analytics and software development such as
- Extremely interested in the Technology Summer Analyst Internship with Citi

## EDUCATION

<b>2020 – Present</b>	Technological University Dublin (TUD) Dublin, Ireland Bachelor of Computer engineering GPA 3.47, 1st Class Honours (Expected) <b>Subjects:</b> Computer Networks, Programming 1 & 2, Software Design Quality
<b>2015 – 2021</b>	Colaiste Phadraig, Lucan Dublin Leaving Certificate – 563 points

## WORK EXPERIENCE

Wow burger, Supervisor

- Managed a team of 15 staff members, ensuring smooth daily operations and high team morale.
- Organized and scheduled shifts to maximize efficiency and coverage
- Developed and implemented marketing strategies to increase customer engagement and sales.

Currys Pc World, Sales Associate

- Consistently met and exceeded individual and team sales targets, contributing to overall store success.
- Delivered exceptional customer service, addressing queries and resolving issues promptly.
- Created a welcoming shopping experience that encouraged repeat customer visits.

Amazon, Student Brand Ambassador

- Promoted Amazon's services and products to the student community, increasing brand visibility and engagement.
- Organized and executed marketing campaigns tailored to student needs and interests.
- Built relationships with campus societies to foster partnerships and brand advocac

## PROJECTS

### Greenhouse Monitoring System (2nd Year Project)

**GREENHOUSE SYSTEM** | Designed for monitoring environmental parameters to optimize plant growth

**SENSOR INTEGRATION** | DS1820 for temperature, DHT22 for humidity, and LDR for light intensity

**DATA DISPLAY** | LCD screen for real-time sensor data

**PCB & SCHEMATIC DESIGN** | Custom PCB for optimized component layout and circuit flow

**TESTING & VALIDATION** | Rigorous testing to ensure sensor accuracy and system performance

### Network Microcontroller System (3rd Year Mini Project)

**IoT SYSTEM** | Developed a networked microcontroller with IoT capabilities for efficient data management and cloud integration

**FIRMWARE** | Tasmota for I2C, SPI, and serial communication

**CLOUD INTEGRATION** | Microsoft Azure for backend and state management

**HARDWARE** | Upgraded from ESP8266 to ESP32-S3 for enhanced Wi-Fi

**DATA MANAGEMENT** | Node-RED, Grafana, and InfluxDB for real-time monitoring and analysis

### **GP Virtual Monitoring System (3<sup>rd</sup> Year Final Project)**

**GP Monitoring System** | Tracks body temperature, blood pressure, and heart rate using DS18B20 and SEN0203 sensors.

**Sensor Integration** | Configured DS18B20 and SEN0203 with Tasmota for MQTT communication.

**Cloud and Database** | Set up MQTT on Azure and integrated MySQL via XAMPP for secure data storage.

**Website Development** | Built a dynamic website using HTML, CSS, JavaScript, and PHP for real-time health data access.

**System Testing** | Ensured reliability and data connectivity with local XAMPP testing.

### **SKILLS**

**PROGRAMMING** | HTML, and CSS; familiar with C/C++, Java, Python, SQL, MongoDB

**SOFTWARE** | Proficient in Excel, Word

**COMMUNICATION** | Multilingual in Irish, Urdu, Arabic, and Sign Language for effective communication

**LEADERSHIP & VOLUNTEERING** | Treasurer and Events Officer for Charity Week

**PROFESSIONAL** | Problem Solving (Sales)

### **INTERESTS**

**Software Development & Tech** | Designing scalable software solutions with exploring advancements like cloud computing.

**Teamwork and Growth** | Enthusiasm for collaborating with others and learning new skills.

**Extracurricular Activities** | Playing football, badminton and Card games

**Problem Solving** | Enjoy tackling challenges and finding efficient, innovative solutions.

### **ACHIVEMENTS**

**Leadership & Volunteering** | Nominated Best Student for Leadership in 1st Year Automation Project, Treasurer of Charity Week, Class Representative, Student Brand Ambassador (Amazon), Student Ambassador (Islamic Relief Ireland), Events Officer for Islamic Society

**Professional** | Member of Engineers Ireland.

### **REFEREES**

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