Mukesh Kumar

5-8530, avenue de l'Epée, Montreal, QC, H3N 2G6
(514) 809-7175
Email : mukeshkumarrattu@gmail.com
LinkedIn
Languages - English | Hindi | Punjabi

IOT Hardware Developer

Professional Profile:

IOT Hardware Developer with over 3 years of experience in IOT(internet of things) end to end solution and background studies in Computer Science. Hand on experience with Multi layer **PCB Design** application. Solid knowledge of **Micro-controllers** and **Cloud Services**. Detail oriented, dedicated and dependable team player who has strong analytical, organizational, problem solving, and management skills, with ability to manage multiple tasks and work in a paced and aggressive schedule.

Education

Programming and Web Technologies, AEC   2019 - Present
ISI, L'institut Supérieur d'Informatique, Montreal

Computer Application. Bachelor   2018
GNA University, Punjab, India

Technical Skills

Graphic Design	Eagle, Orcad, Photoshop
Micro-controller Programming:	Arduino, Esp8266 Wi-Fi module, Esp32, NodeMcu, Raspberry Pie
Programming Languages:	C, C++, Java, C#, Node.js, PHP, JavaScript, HTML, CSS,
IOT Protocols:	HTTPS, MQTT
IOT WiFi Protocol:	WEP
Databases:	Google Cloud SQL, Firebase, MySQL
Networking:	TCP/IP, LAN, WAN
IDE:	Arduino, Android Studio, Eclipse, Visual Studio, Visual Studio Code
Design Pattern:	MVC, Observer, Adapter
Frameworks:	ReactJS, JQuery
Virtualization:	Vmware, Virtual Box
Operating systems:	Windows(7/8/10)

Projects

Wireless Authentication Device (Esp32 controller, Android, Firebase, C++, Fingerprint sensor)
- A device that can provide authentication for any project using fingerprint and face recognition.
- **Role:** In group of 3, I am the one who responsible for **Micro-controller Programming.**

Trigger Notifier (NodeMcu board, Arduino, Blynk app, Microwave sensor, Artificial intelligence)
- This gadget have **AI** support, which automatically perform actions like switch ON/OFF on any electrical equipment after sensing from attached sensors.
- **Role:** I made the hardware design and assemble everything in a way so it can easily compatible with the software and other team members can configure it properly.

Experience

Professional Experience

IOT Tutor   2018 - 2019
NCM Institute, India
- Conduct seminars in Colleges and Universities
- Provide Project Based Learning
- Create learning activities that are complex
- Prepare students to be a part of a team
- Always take feedback from students to improve teaching skills

Other Experience

Machine Operator   2019 - 2020
ABB, Montreal
- Ability to work in a fast-paced, high-speed environment, follow standardized work
- It helps to attain teamwork
- Doing multiple tasks at a time

References available upon request