ASHVIN MENDIS

OBJECTIVE

To attain a position based on IT in a renowned organization in the dynamics and competitive fields with the intention of contributing to the growth of the company with my knowledge while uplifting my professional skills.

PORTFOLIO PROFILE

- ashvinmendis.github.io

CONTACT DETAILS

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ACADEMIC QUALIFICATION

- **Certificate course in web developing design and development at NIBM. (2020)**
  Designed and developed an Inventory web application by using HTML, CSS, Bootstrap, Java Script, PHP, SQL technologies and presented.

- **Master of Engineering (Hons) Mechatronics Engineering (2015-2019)**
  Classification: Second class upper division
  Awarded by University of Wolver Hampton UK.

ACADEMIC PROJECTS

Smart Gloves for Deaf (Group) Achieved as best project & won the gold medal)
The Smart-glove is converted the sign language into words(voice) via a mobile application. This creates the opportunity for the deaf persons to communicate with others. Designed the smart-glove circuit-PCB Programmed Bluetooth master-slave by Arduino.
Technologies used – Arduino, C++, Eagle, Bluetooth.

Pet Feeder Robot (Individual)
A robot which can feed pets by controlling a mobile application without distance barriers and observe pets by a mini-camera. Can fully control by a smart phone. Designed the robot classy, the circuit (PCB), programmed with Raspberry Pi and designed the GUI by Python.
Technologies used – Arduino, python, Eagle, Solidworks, Raspberry Pi.

Smart Railway Gate System (Group Project)
Automatically the railway gates open and closed. Active the railway signal lights and traffic lights. Programmed the system by Arduino.

3 in 1 Electric Coconut Scraper (Group Innovation)
3 in 1 Electric Coconut Scraper can grind, scrape the coconut and squeeze the scraped coconut. Designed a new mechanism as a group to control all the tasks from one gear motor. Contributed in Solidworks designing and intellectual part of the innovation.

TECHNICAL KNOWLEDGE & KEY SKILLS

- **Programming**: C++|Python| HTML| CSS |JavaScript |PHP |SQL
- **Development Tools:** Arduino| Node Red |Visual Studio | Raspberry Pi
- **Designing Tools**: Eagle |Proteus |Solidworks
- **Microcontrollers:** ESP8266 |ESP32 |ATmega Microchips
- **Quick learner.**
- **Focused and punctual.**
- **Friendly.**

WORKING EXPERIENCE

1. DIMO LANKA – DIMO Digital (August 2019-prasent)

- **IR AC Controller** - Designed a circuit and Programmed by Arduino which can turn off and turn on any air conditioner with the state of window. (window open or close)
  Technologies used - Arduino IDE, MQTT, C++, Eagle, Proteus.

- **Power monitoring** – Designed circuits and programmed by Arduino which can measure voltage, current & power and send values to MQTT server true WIFI. Edited firmware. Implemented an Android mobile application and designed a dashboard using Node-Red.
  Technologies used - Arduino IDE, MQTT, C++, java, Node-Red, Eagle.

2. ORANGE ELECTRIC – Research and Development (July 2017- January 2018)

- **Touch switch Panel -** 8 gang touch switch board, which can be controlled by touching and Bluetooth. Designed the circuit and programmed by Arduino. Developed mobile application using MIT app inventor.
- **Light Dimmer -** Designed the circuit which can dim AC 230V bulbs and programmed by Arduino
- **Power Supply -** Designed 230V AC to 5V DC power supply circuit.
  Technologies used - Arduino IDE, C++, Eagle, Proteus, MIT App Inventor, Bluetooth.

- Participated and conducted as an Orange volunteer in MICROBIT project which have organize by the government and Orange Electric for school students and teachers at BMICH.

PERSONAL PROJECTS

- **Smart Curtain System** – Designed a circuit, mechanism and programmed to roll up and roll down the curtain. It is controlled by smart phone with WIFI. Used ESP-12F microchip.
- **RFID Smart Gate Lock System** – Designed a circuit, mechanism and programmed to a gate locker which can unlock by RFID card and smart phone. Used RFID module and ESP-12F microchip.
- **Automatic Room Lightning Controller** - Designed a circuit and programed, when entering the room, the light automatically turns on and when leaving it automatically turns off.
- **Obstacle Avoiding Robot**- Programmed a robot which can move avoiding the physical obstacles on the way.

EXTRACURRICULAR ACTIVITIES

- Member of chess club CINEC (2018- 2019).
- President (2018) and Vice president (2017) of youth fellowship St. John the Baptist Church Gampaha.
- Member of school Aeronautical Society (2013-2014), Chess Club, Karate team (participated for tournaments) and Environmental Conservation Circle.
- Interest in Badminton, swimming and playing guitar.

NON-RELATED REFEREES

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