ASHVIN MENDIS

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TECHNICAL KNOWLEDGE & KEY SKILLS

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

PERSONAL PROFILE

I am a self-motivated and energetic individual who has both higher education qualifications and work experience in the industry. I am also experienced in industrial automation, embedded system, coordinating engineering projects, IoT, electronic, programing.

WORK EXPERIENCE

Urban Agri - Associate Mechatronics Engineer

March 2021 - present

- Build micro controller units and do program for automate systems.
- Engineering solution to product and process efficiency.
- Designing and build custom hardware as required by the management.
- Repair existing automation devices.
- Improve plant quality and conduct research and development.

  Technologies used - Arduino IDE, C++, Eagle, Blynk IoT, Wi-Fi

DIMO LANKA – DIMO Digital - Hardware Trainee

August 2019 – February 2021

- IR AC Controller - Designed a circuit and programmed by Arduino which can control any air conditioner with the state of window. (window open or close)
- Power monitoring – Designed circuits and programmed by Arduino which can measure voltage, current & power and send values to MQTT server true WIFI. Implemented an Android mobile application and designed a dashboard using Node-Red.
- Inspect the BYD full electronic car chargers of DIMO clients.
- Worked on GPS platform.

  Technologies used - Arduino IDE, C++, Eagle, Proteus, Wi-Fi.

ORANGE ELECTRIC – Research and Development – Internship

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.
- 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.

  Technologies used - Arduino IDE, C++, Eagle, Proteus, MIT App Inventor, Bluetooth, Wi-Fi

ACADEMIC QUALIFICATION

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

ACADEMIC PROJECTS

- **Smart Gloves for Deaf (Group) Achieved as best project & won the gold medal**
  The Smart-glove is converted the sign languages 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 and smart glove, Programmed Bluetooth master-slave by Arduino.
  Technologies used – Solidworks, Arduino, 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 cheesy, the circuit (PCB), programmed with Raspberry Pi and designed the GUI by Python.
  Technologies used – Solidworks, Arduino, python, Eagle, Raspberry Pi.
- **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.
  Technologies used – Solidworks.

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.

EXTRACURRICULAR ACTIVITIES

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

NON RELATED REFEREES

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