**Y S JENIFER SINGH**

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# Career Objective:

Seeking a position in an industry to utilize my programming skills and technical knowledge towards the growth of the organization.

# Academic Records:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Course | Institution | Board/University | Year of Passing | Percentage |
| B.E (ECE) | Hindusthan College Of Engineering and Technology, Coimbatore. | Anna University | 2019 | 75 |
| HSC | Carmel Higher Secondary School, Nagercoil. | State Board | 2015 | 89 |
| SSLC | Carmel Higher Secondary School, Nagercoil. | State Board | 2013 | 97 |

**Technical Skills:**

**Programming:**

**Languages:**

* C
* Core Java
* Python

**Web Technologies:**

* HTML
* CSS
* Javascript

**Scripting:**

* PHP
* Powershell

**Database:**

* MySql
* SQL

**Technologies:**

**Servers:**

* Apachae

(Ampps,Xampp)

**IDE:**

* Code Blocks
* Eclipse
* Arduino
* Energia

**Operating Systems:**

* Windows
* Linux (Ubuntu)

**Chip sets:**

* AtMega (Arduino)
* MSP430 (Texas Instrumentation)

**Communication Devices:**

* Bluetooth
* GSM
* Wifi

**Sensors:**

* Inductive type - Proximity sensor, Ultrasonic sensor
* Capacitive type - Touch sensor, Smoke sensor
* Resistive type - Temperature sensor, Moisture sensor
* Optical type - IR sensor, Image sensor
* Mechanical type - Pressure sensor

**Projects:**

* **I-Trolley:**

It is an IOT project for smart cart system in market. It is a trolley which will collect the information of the products while purchasing using the RFID reader and calculate total amount after purchasing. The purchased products can be viewed in our mobile phone via blue term application. The purchasing data was stored in Think Speak database which can be viewed by the shopkeeper. The location of the products inside the shop can viewed in the blue term app. The trolley need not to be moved by the customer. It will follow the customer using image processing technique. The data from the camera was processed by the Rapsberry pi and gives appropriate signal to control the wheels of the vehicle.

* **Autobot:**

It is an robotic vehicle which can detect its path with the help of sensors which is controlled with Arduino. IR sensor is used for detecting obstacles of the vehicle. The Arduino processes the data from the IR sensor and gives appropriate signal to control the wheels of the vehicle. This principle can be applied in automatic car.

* **Power consumption in home appliances using Embedded devices :**

It is a embedded project to control the home appliances. Dynamic prediction is used for switching on and off lights while entering in a room. Timing logic was used for the working the home appliances for a certain period of time if needed. This can be applied in modern home automation.

* **Sheet:**

It is a console application for storing and searching of data in a computer in the form of spread sheet. The entire process of storing and searching data was constructed using data structures such as Linked List and Graph. The coding was entirely in C Language.

**Workshops & Seminars:**

* Attended 7 days’ workshop based on IOT & Embedded System with hands on training experience on Intel Galileo Board under the INTEL COLLEGE EXELLENCE PROGRAM.
* Undergone ETHICAL HACKING seminar by Coderdojo.org in Hi-devs club.
* Attended 2 days PCB designing workshop with hands on experience.
* Participated in ICT Academy Youth Leadership Summit 2017.
* Undergone 2 days’ workshop based on ROBOTICS in IIT Madras organized by Techtron Technologies in 2017.

**Paper Presentation:**

* **Memristor Technology:**

Memristor technology was based on a device called memristor. Memristor was a also called as Memory Resistor. It was a resistor which can act as a memory device. It was an advanced technology for analog computing.

* **I-Trolley:**

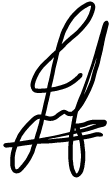
It is a presentation about a smart cart used in super markets. It can calculate the bill of the purchased product using RFID tag and reader. The purchased product can be used in the viewed in our mobile phone through an application. After purchasing the purchased data was stored in the database which can be viewed by the shopkeeper.

* **Remote Access Service:**

It is a presentation about how the remote services and the wireless services are working and what are the benefits of them.

**Activities:**

* Coordinator in Hi-Devs (Hindusthan Developers) club.
* Coordinator of CIRCUITRIX event in our department symposium VIRTUAZA 2018.
* Class representative for the academic year 2016-2017.
* Member of career development club in our department.



Y S Jenifer Singh