

MAHADEVAN SYAM

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Website

Education

Vellore Institute of Technology

B. Tech, Electronics and Communication Engineering

2021 - 2025

CGPA: 8.89/10.0

Sarvodaya Vidyalaya

ICSE Board

2021

12th: 92%

Skills

Programming Languages: Python and its technologies, Embedded C, Java(Beginner), HTML/CSS(Beginner)

Hardware Descriptive Languages: VHDL, Verilog

CAD Tools: libero SOC (VHDL), Fusion 360 electronics, MatLab, TinkerCad, Spice simulation tools(Cadence Virtuoso, Pspice, LTSpice)

Languages: English, Malayalam, Hindi

Certifications

The Complete Python Programming bootcamp by Dr. Angela Yu: Udemy

C/C++ Programming: Udemy (Ongoing)

ASIC Designing using Cadence Tools: VIT, Vellore

Internet of Things: VIT, Vellore

Projects and Research Paper

IoT based automation in ESL Classroom | IoT, Report Writing, Research

July 2022 - Nov. 2022

- Under the guidance of Prof. Dr. M. Thenmozhi, a research was conducted a group of 5 members in which the problems and benefits related with introduction of IoT devices in english as a secondary language classroom was documented and published.

Iot based RFID attendance system | Mini project

July 2023

- Created an RFID Based attendance calculating device using ESP32 Microcontroller.
- The collected data was updated with the requirements into a google sheets which was then displayed onto a local website

Professional Experience

Vikram Sarabhai Space Center (ISRO)

Novemeber 2023

Project Intern

Trivandrum, Kerala

- Project Name: FPGA Based LVDT Signal Conditioning
- Developed a programable and synthesizable sine wave generator and an ADC interface using VHDL for a custom FPGA to improve the response performance of a particular flight module
- Analysed and developed analog circuits for the filtering and rectification of the output received from the LVDT sensor to be fed to the FPGA for further calculations
- Skills Used: FPGA interfacing, VHDL, Circuit Analysis

iOrbit Digital Technologies

October 2023

Embedded systems Intern

Trivandrum, Kerala

- Project Name: Next-Gen Fiber Mat for comprehensive patient care: Respiration, Position and Activity
- Assisted in designing and developing the embedded C script for the collection of data from a fibre optic mat
- Assisted in designing and developing the python scripts used to smoothen,filter and analysis of the received data for further processing
- Understand the analog circuitry behind the product for further optimizations
- Skills Used: Circuit Design, Python, Embedded C, 3D Modelling

CDAC Thiruvananthapuram

August 2023 - September 2023

Project Intern

Trivandrum, Kerala

- Project Name: IoT Based Remote Health Monitoring System
- Design and develop python scripts to automate the collection of data from multiple sensors through a microprocessor
- Manage a MySQL database for storage of the collected data
- Deploy a local server and create an entry level website using HTML, CSS and PHP for the data to be displayed
- Get an insight into the advanced concepts of IoT development technologies such as FLASK, RESTful API and WebSockets.
- Skills Used: Python, HTML/CSS, MySQL, PHP

Volunteer Experience

IEEE SPS VIT
Senior Core Member

- Organiser and Speaker at an hardware Hackathon conducted during Yantra 2023
- Organiser of multiple events including class sessions, hackathons, workshops and ideathons
- Skills Used: Leadership, Teamwork, Communication, Management

March 2022 - Present
Vellore

JOL Energy
Electronics Intern

- Startup under VIT TBI
- Helped design schematics for an EV Charger
- Skills Used: Circuit Design, PCB Design

August 2023 - October 2023
Remote

Ayuda NGO
Core Member

- Helped promote the club and its events through digital media in the form of posters and graphical designs
- Skills Used: Vector Graphics, Adobe illustrator

March 2023 - Present
Remote

Extra-Curricular Work

Grade 5 keyboard player | *Trinity College, London*

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