Mahadevan Syam

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Website

Education

Vellore Institute of Technology **2021 - 2025**
B. Tech, Electronics and Communication Engineering *CGPA: 8.89/10.0*

Sarvodaya Vidyalaya **2021**
ICSE Board *12th: 92%*

Professional Experience

iOrbit Digital TEchnologies **October 2023**
Product Development Intern *Trivandrum, Kerala*

- Developed a product to detect the respiratory rate of a patient using BCG technology
- Incorporated scripts using Python and Embedded C to collect, store and analyse the respiratory rate values
- Helped in designing the circuit schematics of the product
- Skills Used: Circuit Design, Python, Embedded C

CDAC Thiruvananthapuram **August 2023 - September 2023**
Project Intern *Trivandrum, Kerala*

- Developed a project for monitoring patient health data using Raspberry pi and various sensors
- Used python script to automate the process.
- Stored the data in a MySQL database and developed an entry level site to display the data.
- Get an insight into the concepts of IoT development technologies such as FLASK, RESTful API and WebSockets.
- Skills Used: Python, HTML/CSS, MySQL, PhP

Volunteer Experience

IEEE SPS VIT **March 2022 - Present**
Core Member *Vellore*

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

Ayuda NGO **March 2023 - Present**
Project Intern *Trivandrum, Kerala*

- Create designs for promotion of various events
- Skills used: Graphic/Poster design

JOL Energy **August 2023 - October 2023**
Ecetronics Intern *Remote*

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

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 attendace 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

Skills

Languages: Python and its technologies, Java,Embedded C, HTML/CSS
CAD Tools: Fusion 360 electronics(Eagle), MatLab, TinkerCad, VerilogHDL, Spice simulation tools(Cadence Virtuoso, Pspice, LTSpice)
Languages: English, Malayalam, Hindi