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%*

Skills

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

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

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
- Analysed and developed analog circuits for the filtering and rectification of the output received from the LVDT sensor
- Skills Used: FPGA, 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
- 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*
- Project Name: IoT Based Remote Health Monitoring System
- 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

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