Mahadevan Syam

 Mahadevan Syam Portfolio Website Mahadevan Syam mahadevansyam@gmail.com Certificates

EDUCATION

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

Sarvodaya Vidyalaya ICSE   2021
   12th - 92%

CERTIFICATIONS

Python Programming: Udemy(ongoing)
C programming: Udemy (ongoing)
Entrepreneurship: NPTEL (ongoing)
ASIC Designing using Cadence Tools: VIT, Vellore
Internet of Things: VIT, Vellore

SKILLS

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

PROJECTS AND RESEARCH PAPER

IoT-Based Automation System in ESL Classrooms | *Research Paper-Mentor:Dr.M.Thenmozhi* 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
- As a part of our coursework, I was asked to make a mini project on RFID attendance system. The project used an ESP 32 which was used to take the attendance using an RFID sensor. The data would then be sent to Google sheets where a script was written for it to update the data. The data was then displayed onto a website

PROFESSIONAL EXPERIENCE

VSSC (ISRO) | *Project Intern*   Selected, Tentative Joining: November 2023
- **Project Name**:

iOrbit Digital Technologies | *Product development Intern*   October 2023
- **Project Name**:Respiratory rate counter using BCG technology
- Develop and verify schematics for the product
- Develop an algorithm for finding the respiratory rate of patients using python and embedded C
- Test the developed algorithm under various scenarios

CDAC Thiruvananthapuram | *Project Intern*   August 2023 - September 2023
- Understand the concepts of using Flask framework for implementing RESTful API and WebSockets
- **Major Project**:To create an IoT Based health monitor which collects data, Stores data in MySQL Database, host a local server and display the requirements in a Website
- **Skills**:Python, MySQL, HTML/CSS, PHP, RESTful API, FLASK, WebSockets, MQTT

Volunteer Experience

IEEE SPS VIT Student Chapter | *Core Member*   March 2022 - Present
- Organiser and Speaker on sensor technology at Electrohive, Hardware hackathon
- Class session on Arduino and Arduino IDE
- **Skills**:Communication, Management, Teamwork

Ayuda NGO | *Core Member*   March 2023 - Present
- Design event posters for the promotion of the events conducted by the NGO
- **Skills**:Graphic Design, Adobe Illustrator

JOL Energy, a startup under VIT TBI | *Electronics intern*   August 2023 - October 2023
- Develop schematics for an efficient EV Charger
- **Skills**:Schematic development, PCB Design

Extra - Curricular

Grade 5 Electronic Keyboard player | *Trinity College, London*