NARENDRAN S

SKILLS AND TOOLS

- MATLAB
- Python, C
- Altium Designer
- Printed Circuit Board
- Open Rocket
- UART, Ethernet, I2C & SPI
- ARM cortex Micro controller
- LABVIEW
- Free RTOS

RELEVANT COURSES

- Control Systems
- Signals and Systems
- Discrete Control Systems
- Mixed Signal Design

EDUCATION

Government College of Technology, Coimbatore, Tamil Nadu.
B.E – Electronics and Instrumentation Engineering
(2019 – 2023) CGPA: **8.74**

Sengunthar Higher Secondary School, Erode, Tamil Nadu.
HSC (2019) Percentage - **92.8%**
SSLC (2017) Percentage - **90.8%**

INTEREST

- Team management
- Research and Development
- Product Development
- Community Development
- Personal Finance.

CONTACT

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HOBBIES

- Building Model Rockets
- Writing
- Miniatures
- Reading
- Astrophotography
- Badminton

PROFILE SUMMARY

An Engineer from the graduating batch of 2023, with interest in Electronics, Control. Seeking a full-time position in the **Embedded avionics systems** and **control**.

WORK EXPERIENCE

Chara Technologies **IoT Engineer**
June 2023 – Present
- Designed and developed a ESP32 based HW & FW using ESP-IDF Framework for automotive data logger
- Established a prolonged connectivity between AWS and EDGE to collect vehicle data
- Developed a desktop CAN-GUI for vehicle motor tuning and MC bootloader.
- Developing both Hardware and Firmware for a vehicle control unit (VCU) for 2W, 3W in STM32 on Both Bare metal & HAL.

Zynomi Private Limited **Hardware Design Intern**
October 2022 – February 2023
- Designed a custom hardware for subscription water purifier
- Worked on LoRa to monitor and control the device
- Deployed the product into the marked within 6 months

Team Screwtenizers (All-terrain Vehicle Team) **Electrical Member**
September 2020 – July 2022
- Data Acquisition in Vehicle Transmission using a microcontroller.
- Designed a Steering System using SOLIDWORKS CAD tool.

NALVision India Ltd **Hardware Design Intern**
November 2021 – January 2022
- Had an experience with various dev boards (raspberry pi, Heltec, TTGo).
- Working on numerous protocols such as LoRa, BLE-Beacon, I2C, SPI & CAN.
- Industrial Exploration like RTOS, IoT Core, Communications – RS435.

PROJECTS

GNC-Airstrike	• Guidance and Navigation Control of a missile using MATLAB
VayuVeer-I	• Developing Gimbaled Trust vector control using discrete control system on STM32.
Falcon 1 Engine 3DOF simulation	• Flight simulation of Rocket Takeoff and Landing using MATLAB
Aircraft Pitch Control	• Aircraft pitch control modelling and control using PID on MATLAB
HMI based Mini Robot	• Developed a web based Human Machine Interface Robot using ESP32 Microcontroller, L293 Motor Driver.
Open Loop TVC Simulation	• Trust Vector Control for model rocket which involves dynamics and control

ACADEMIC AND EXTRACURRICULAR ACHIEVEMENTS

- Google Hash Code Ranker – Participated in a C Hash Code competition conducted by google at National Institute of Technology, Tiruchirappalli. Rank within the top 5%.
- Published research on "Energy Harvesting from Light Emitting diodes"
- Member of the team responsible for maintaining the website of IEEE Ocean Engineering Society (IEEEOES)
- Published a research paper on IJEAST – ECG and Pulse Oxygen level Monitoring and Arrhythmia Classification using CNN
- Finalist of **SMART INDIA HACKATHON 2023 HW** – Edition "Developed a smart safety jacket for underground mine workers"