

Dhairya Vyas

Electronics and Communication Engineer

📍 Rajkot, Gujarat

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🎓 EDUCATION

B.E. in Electronics & Communication Engineering

V.V.P. Engineering College

2019 – 2023 | Rajkot

12th Grade

Kokilaben Dhirubhai Ambani Vidyamandir

2019 | Jamnagar

👛 PROFESSIONAL EXPERIENCE

Scaledge Technology

Embedded Firmware Intern

02/2023 – Present | Ahmedabad

1. *Versatile Learning*: Gained expertise in C, C++, DSA, Linux Internals, and Shell Scripting through comprehensive training.

2. *Protocol Proficiency*: Acquired hands-on familiarity with UART, SPI, and I2C protocols, enhancing communication interface understanding.

3. *Practical Application*: Designed a Live Webserver using STM32F334-Disco, USB-TTL Module, ESP 8266 and voltage divider circuit for real-time temperature display, battery voltage monitoring, and LED control.

📁 PROJECTS

● Live Webserver - Temperature & Voltage Monitoring with LED Control

2023

Created with STM32F334-Disco and USB-TTL Module, it monitored real-time temperature, voltage, and enabled remote LED control.

Seamlessly merged hardware and software, presenting live data and interactive LED management through a web interface.

● Arduino and IC based Toycathon Project

2021

Made a Smart Toy Train which explains various Historical Monuments of India.

Using Arduino Uno, RFID Reader & RFID Tag, and APlus - aP89341K IC for Audio output.

● IoT based Smart Farming Project

2021

Using ESP32 & sensors like Soil Moisture Sensor and Temperature Sensor.

Enabled Mobile Connectivity to monitor Soil Moisture and Temperature.

🧠 SKILLS

Embedded Systems | C Programming

C++ Programming | STM32 | Arduino | SPI | I2C

UART | ESP8266 | ESP32 | Linux Internals

Shell Scripting | IoT

📜 CERTIFICATES

Mastering Microcontroller and Embedded Driver Development - FastBit Embedded Brain Academy

2023

Internet of Things & Machine Learning Certified course from Bolt - IoT

2021

🏆 ACHIEVEMENTS

Reached at Grand Finale level in Toycathon

2021

Volunteered at Vikram Sarabhai Centenary Programme organised by ISRO.

2020

Bagged 2nd Rank in Mental Aptitude Test conducted by college.

2020

🏠 EXTRA CURRICULAR ACTIVITIES

Organized Farewell Party (EC Department)

Head

2022

College Annual Day Event Management

Committee Member

2022

🌐 LANGUAGES

English | Hindi | Gujarati

🔑 INTERESTS

Exploring New Gadgets | Driving | Cycling

Photography