

RATANRAJ NARAYANKAR

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Education

Sardar Patel Institute of technology

Bachelor of Technology in Electronics and Telecommunication

Dec. 2021 – May 2025

CGPA -6.26

D.G.Ruparel College

H.S.C Science

Aug. 2019 – March 2021

82%

TET's Trinity School

S.S.C Science

June. 2018 – March 2019

74.6%

Relevant Coursework

- | | | | |
|-----------------------|-----------------------|-------------------------|-------------------|
| • Data Structures | • Database Management | • Computer Architecture | Communication and |
| • Algorithms Analysis | • Internet of Things | • Computer | Network |

Technical Skills

Languages: C, C++, HTML/CSS, SQL

Developer Tools: VS Code, Android Studio, Google Cloud Platform, Figma

Technologies/Frameworks: Matlab, Thonny, Simulink, GitHub, WordPress

Projects

Home Automation | *MicroPython, ESP32, 16 channel relay, IR Sensor*

June 2024

- Developed an home automation device using ESP32 programmed through Thonny and Micro-Python
- That can be controlled by IR sensors as well as thorough Wifi
- Configured 4 IR sensors that will control 8 Home appliance
- It is configured to 16 Channel relay, therefore it has the Capacity to control 16 devices

Induction Casting Machine | *CCS Studio, TMS320F28004x Real-Time Microcontrollers, IR Sensor*

January 2024

- Developed an Simulink model programmed through CCS studio.
- That can be controlled by Potentiometer as well as thorough Modifying Programme.
- It is a feedback system which provides appropriate Current to produce sufficient heat to melt that specific metal.

Ticket Price Calculator App | *C++, Android Studio*

November 2022

- Created an Android application using C++ and Android Studio to calculate ticket prices for trips to museums in NYC.
- Processed user inputted information in the back-end of the app to return a subtotal price based on the tickets selected.
- Utilized the layout editor to create a UI for the application in order to allow different scenes to interact with each other.

Electronic Voting Machine | *8051, Assambly Language Programming*

October 2022

- Designed a sample Electronic Voting Machine using 8051 microcontroller which is Locked by a Passcode which will be set before polling.
- Connected to a 12 push button each denoting one candidate.
- Passcode has to be entered before Voter can vote, this ensures each voter can vote only once.

Leadership / Extracurricular / Experience

- NCC (National Cadet Corps) 'C' Certificate holder that too with 'A' Grade.
- Represented Maharashtra in EBSB camp of NCC and won Silver Medal in cultural.
- Participated in Mumbai Police marathon and Tata marathon.
- Part of Gadvede Trekkers and Trekhivers, Volunteered and leaded many treks.
- Teach Physics and Math to FYJC and SYJC students in coaching institute in my locality from 3 years.

Experience

Electronics Company

May 2020 – August 2020

Software Engineer Intern

City, State

- Developed a service to automatically perform a set of unit tests daily on a product in development in order to decrease time needed for team members to identify and fix bugs/issues.
- Incorporated scripts using Python and PowerShell to aggregate XML test results into an organized format and to load the latest build code onto the hardware, so that daily testing can be performed.
- Utilized Jenkins to provide a continuous integration service in order to automate the entire process of loading the latest build code and test files, running the tests, and generating a report of the results once per day.
- Explored ways to visualize and send a daily report of test results to team members using HTML, Javascript, and CSS.

Startup, Inc

May 2019 – August 2019

Front End Developer Intern

City, State

- Assisted in development of the front end of a mobile application for iOS/Android using Dart and the Flutter framework.
- Worked with Google Firebase to manage user inputted data across multiple platforms including web and mobile apps.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- Utilized Android Studio as a development environment in order to visualize the application in both iOS and Android.