

# SUSHRUTHA S ATHREYA

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<https://github.com/SushruthaS>

## About Me

- Embedded System enthusiast with experience in IOT and Programming.
- Good grasping capabilities with keen interest in Debugging and Designing Circuits.
- Interested in Automotive Embedded System and ECU Designing.
- Eager to learn and adapt to new technologies.

## Education

R.N.S Institute of Technology

2021 - Present

B.E in Electronic and Communication Engineering

CGPA: 7.09

**Relevant coursework:** Analog Electronic Circuits, Digital Electronics with Verilog, Circuits and Control System, Computer Communication Network, Signal Processing, Data Structures.

Vidyaniketan Pre-University College

2021

P.C.M.E -89.83%

Vidyaniketan Public School

2019

C.B.S.E -87.6%

## Projects

Autonomous Rover

August -2024

- This project develops an autonomous rover designed for efficient navigation in constrained environments.
- The rover integrates three key functions: localization, navigation, and locomotion.
- The rover is equipped with obstacle avoidance capabilities, ensuring safe and efficient navigation through constrained environments.

Automatic Irrigation System using Soil moisture

May-2022

- Simple irrigation system that uses soil moisture level as a parameter.
- The motor is tuned on until the moisture level in the soil goes above the given threshold level.

Noise Cancellation using kalman Filter

Feb-2022

- Developed a Kalman filter algorithm to estimate clean speech signals from noisy data, enhancing signal clarity and reducing noise.
- Implemented recursive estimation techniques to optimize error covariance and signal prediction.
- This algorithm was directly used to optimize an audio.

DESIGN OF FIR AND IIR FILTER USING MATLAB

Feb-2024

- Basic FIR and IIR Filter design using Matlab.
- Creating a User Interface for the same using Matlab and displaying the outputs Graphically.

Book Management System(Using Java)

August -2024

- A Book management system that is used to store books data in file and perform following functions:  
1. View all books 2. Search for a book using ISBN(key) 3. Insert a new book 4. Delete a book 5. Exit

Youtube Clone Using CSS

August -2024

- Clone of YouTube homepage Frontend design.
- The page design is done using Flex.

My Portfolio Design

August -2024

- The portfolio is as such Designed as a frontend project.
- This is done using HTML, CSS and JavaScript

## Skills

- C
- C++
- Matlab
- Java
- JavaScript
- CSS
- HTML
- Node JS
- MySQL
- Simulink