

# DARSHAN K S

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🌐 LinkedIn | 🐙 GitHub | 🌐 Website

Pursuing an undergraduate degree in Computer Science and Engineering. I have a passion for Robotics and incorporating automation into daily life.

## EDUCATION

### Manipal Institute of Technology

*B.Tech in Computer Science and Engineering*

**2020 – Present**

*Manipal, India*

Cumulative GPA: 8.60 / 10.00

Coursework: Object Oriented Programming, Database Systems, Operating Systems, Computer Networks

### Deeksha Centre for Learning

*Senior High School(Grades 11-12)*

**2018 – 2020**

*Bangalore, India*

Grade 12: 89.5 %

JEE Mains: 97.79 percentile

## EXPERIENCE

### Robert Bosch Centre for Cyber-Physical Systems

**Dec 2022 – Present**

*Robotics Research Intern*

*Bangalore, India*

- Working on the development of the software stack(ROS) and the hardware interface for a 3DOF articulated arm for the STOCH - a quadruped targeted for pesticide spraying application.  
Supervisor: Dr. Shishir Kolathaya

### Project MANAS

**May 2021 – Present**

*Sensing and Automation division member ([certificate](#))*

*Manipal, India*

- Part of the main mission team and developed the imaging pipeline for the AUVSI SUAS 2022 competition and placed 18th out of 71 teams.([Rankings](#) / [Paper](#) / [Video](#))
- Developed a web app for Manual image classification with localized image crop-frame geotagging for a continuous image stream from the UAV, and also interfaced the camera for automated transfer.
- Set up a socket-based wireless communication network for UAV to ground station image transfer.
- Interfaced 3-D and 2-D LIDARs and Inertial Sensors into the software stack of our self-driving car, Eve.

### Formi

**Jan 2022 – Apr 2022**

*Frontend Developer*

*Manipal, India*

- Developed a website for an event ticketing platform and an affiliate network, implemented with the MERN stack.

## PROJECTS

### Wall follower robot | ROS and Gazebo

**2021**

Simulated a left wall following robot that uses a feedback-based control system and implements skid-steer drive in ROS and Gazebo.([View](#))

### Grocery Bud | JavaScript

**2021**

A web based list making application implemented in vanilla JavaScript, which uses cookies to retain list data and load persistent list upon relaunching the app.([View](#))

## SKILLS

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**Industry Knowledge:** Robotics, IoT, Frontend Development, UX design

**Programming Languages:** C/C++, JavaScript, Python, Julia, Java, PHP, SQL

**Other Technologies:** Robot Operating System(ROS), ReactJS, Git, Shell Scripting

**Certifications:** Google UX Design Specialization ([credentials](#))

## EXTRACURRICULAR

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- Writer at [Manipal the Talk Network](#), an independent media organisation run entirely by students in Manipal.
- Screenwriter at [Naqaab Filmmaking](#), the official filmmaking club of Manipal.
- Organizer at [Revels 2022](#), the annual national-level Sports and Cultural festival of Manipal Institute of Technology. ([certificate](#))