

Gokulakrishnan D P

SOFTWARE ENGINEER

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Summary

A curious developer seeking to learn more on robotics. Experienced in networking, motion planning, and control algorithms. Super nerd who loves Vim, Linux ❤️ and enjoys to customize all of the development environment. Active participation and contribution to open-source community. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Education

Bannariamman Institute of Technology

BACHELOR OF ENGINEERING IN MECHATRONICS, CGPA: 8.71/10.0

Sathy, Tamil Nadu

May 2023

The Optimus Public School

SENIOR SCHOOL, PERCENTAGE: 80.4/100.0

Erode, Tamil Nadu

March 2019

The Optimus Public School

SECONDARY SCHOOL, PERCENTAGE: 9.2/10.0

Erode, Tamil Nadu

March 2017

Skills

Languages Python, JavaScript, C, C++

Frameworks ESP-IDF, ROS, Angular, RTOS

Documentation Latex, Markdown, HTML

Projects

Vantage

C++

- A terminal user interface for Lenovo laptops
- uses acpi interface to control lenova's battery operations
- 🐙 [Vantage](#)

Solar monitoring

FLUTTER AND RTOS

- Real time data monitoring of solar inverters
- Public communication over mqtt
- App to display all the parameters sent over mqtt
- 🐙 [Solar app](#)
- 🐙 [Solar embedded](#)

Scan unifier

C++

- ROS package to unify two laser scans into one
- Ripped from cob_navigation and maintained separately
- 🐙 [scan_unifier](#)

CalloverUSB

PYTHON

- attends and declines call through adb
- Supports both USB and wireless communication
- 🐙 [CalloverUSB](#)

Other repos

- 🐙 [Linux dotfiles](#) | 🐙 [esp wifi handler](#) | 🐙 [farmprice-webscrap](#) | 🐙 [tyre pressure](#)

Events

Flipkart Grid 3.0

Finalist

- Multi agent system with centralised navigation using camera in grid based task space
- Implemented collision detection and recovery behaviour
- Omnidirectional agents with no sensor

Smart India Hackathon

Winner

- Winner in Hardware edition
- ARIS-Accident rescue and investigation system
- Ad-hoc based accident message relay system
- Centralised monitoring and processing accident cause

Daksh 2020

Finalist

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