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CAREER OBJECTIVE:

To work with an organisation where I can effectively utilize and contribute my skills and ideas towards the organisation's goals and develop my career.

EDUCATION:

Qualification	Year of completion	Institution	University	Percentage of marks
B.E. (Elecrtonics and Communication)	2020 (pursuing)	R.V. College of Engineering	Autonomous -Affiliated to VTU	9.72 (CGPA - 3 semesters)
P.U.C.	2016	Vidya Mandir Independent P.U. College	Karnataka State Board	98.16%
S.S.L.C.	2014	Sri Vidya Mandir Education Society	KSEEB	98.72%

PROJECTS:

1. Planter Bot (December, 2017 to March, 2018):

This project was undertaken as a part of E-Yantra Robotics Competition - 2017, IIT Bombay.

Project Objective:

(a) To traverse different zones in the given arena with the help of image processing.
(b) To overlay the corresponding 'seedling images' on 'plantation backgroungd' image depending on the number of 'colour markers' detected.

Roles and Responsibilities:

Contributed to building the chassis and algorithm of the project.

Challenges:

(a) Image Processing
(b) Shadow and Glare Removal
(c) Path and Zone Differentiation
(d) Switching algorithms for following black and white paths
(e) Image Overlay

2. Greenhouse Monitering System(September, 2017 to November, 2017):

This project was undertaken for self-study during third semester.

Project Objective:

(a) To moniter a greenhouse remotely with the aid of IoT technology.
(b) To automatically regulate the temperature, humidity, soil moisture conditions within the greenhouse.

Roles and Responsibilities:

Contributed to algorithm amd code of the project. Also designed a prototype of the greenhouse.

Challenges:

(a) Interfacing a LCD Display to Raspberry-Pi
(b) Interfacing the temperature - humidity sensor, ldr and soil moisture sensors
(c) Effectively reading the input data from the sensors
(d) uploading the read values to a local cloud

(e) setting thresholds to switch on the regulatory systems

Grid Solver Bot(May, 2017 to June, 2017):

This project was undertaken to exhibit during Srushti Exhibition - 2017.

Project Objective:

To build a robot which traverses to a partical location upon specifying the x,y co-ordinates of the location.

Roles and Responsibilities:

Contributed to algorithm amd code of the project.

Challenges:

(a) To interface IR sensors to arduino

(b) To write efficient path traversing and direction alignment algorithm to take the shortest path to reach the specified location

(c) To make the bot bluetooth controlled

TRAINING AND INTERNSHIP:

- Trained in building a line follower using Arduino at Astra Genesis 101 workshop, RVCE.
- 1 month working experience on Raspberry pi, at technical club Astra, RVCE.
- Trained in image processing using Open CV Python, at E-Yantra, IIT - Bombay.

TECHNICAL SKILLS:

- Programming language : C, Python
- Platforms : Windows, Linux
- Boards : Arduino, Raspberry pi