

VINAYAK NAGAR

P Y T H O N D E V E L O P E R

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ramamurthy nagar bangalore

 <https://vinayaknagar.github.io/>

PROFILE

I am a qualified and professional python developer with more then one years of experience in embedded software. Strong creative and analytical skills.

SKILLS

- python
- c++
- MAVLINK
- CAN Protocol
- linux
- docker
- git and git hub
- Embedded Software
- Jira
- mysql

WORK EXPERIENCE

EMBEDDED SOFTWARE ENGINEER

General Aeronautics Pvt Ltd

July 2023 - Present

- Built the logic for a Firmware update of the drone “over the air”.
- develop a code for avoid obsticals when drone is flying
- Implemented a battery monitoring system with enhanced real-time data retrieval using the CAN protocol.

EMBEDDED SOFTWARE INTERN

General Aeronautics Pvt Ltd

Sep 2022 - July 2023

- Developed software that provides brief mission summaries and allows for real-time drone payload, battery, and spraying area monitoring. Built the logic for a streamlined ad-serving platform that scaled.
- Developed an automation code for verifying the functionality of CAN, SPI, I2C, pump, and nozzle systems, ensuring seamless operation and reliability.
- Developed a code feature ensuring the drone's battery remains secure from manual shutdown while in a ready-to-fly state. Implemented a safeguard allowing battery shutdown only upon disarming the drone, enhancing operational safety and reliability.

EDUCATION

MCA

vellore institute of technology, Vellore
Aug 2021 - July 2023

BSC-IT

GLS University
July 2018 - May 2021