

HARISH CHANDRA

EMBEDDED FIRMWARE/SOFTWARE ENGINEER

With over 2.5 years of specialized experience in embedded software and firmware development, I have honed my expertise in designing and implementing robust solutions for a diverse range of embedded and IoT projects. I excel in architecting complex systems, with a particular focus on integrating advanced flight control software that meets the highest standards of performance and reliability. My strong programming skills in Embedded C, C++, and MATLAB are further supported by a solid track record of delivering innovative solutions, driving growth, and achieving critical milestones in dynamic and fast-paced environments.

PROJECTS

- Fully Autonomous Flight Controller
- UAV Propulsion System Test Jig
- Payload dropping system for fixed wing drone.
- Drone Development Kit

SKILLS

- Embedded C/C++
- RTOS, Linux
- Debugging
- Communication Protocols
- ARM – Architecture
- Git/Github
- Flight control System
- Hardware Architecture Design

CONTACT

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EXPERIENCE

KNOWLEDGE ASSOCIATE AT C-DAC

2022-PRESENT

- Led the design and development activities for unmanned aircraft systems.
- Developed indigenous, fully autonomous flight controller firmware for multi-rotor and fixed-wing UAVs.
- Created firmware for altitude hold, head lock, and position hold, integrating these features with flight controller software.
- Developed a waypoint-based path navigation system and a return-to-launch system.
- Made flight controller firmware configurable for communication protocols, frame types, and sensor calibration.
- Worked on developing an efficient payload dropping system for fixed-wing UAVs to maintain the center of gravity.
- Designed, developed, and productized a drone development kit, flight controller and UAV propulsion system test jig.

PROJECT INTERN AT C-DAC

2021-2022

- Developed a fully autonomous drone using off-the-shelf components.
- Created firmware for the INDUS IoT board enabling drone operation via mobile devices.
- Designed an Android mobile app simulating a joystick for drone navigation control.
- Developed firmware for agricultural spraying and payload drop applications on drones.

EDUCATION

M.TECH IN ELECTRICAL ENGINEERING

2022

National Institute of Technology, Kurukshetra

B.TECH IN ELECTRICAL & ELECTRONICS ENGINEERING

2019

Dr. APJ Abdul Kalam Technical University, Lucknow