

Kunaal Kiran Kumar, B. Eng.

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● ABOUT

Research-driven embedded systems design engineer, currently looking for English-spoken working student jobs to contribute to Research and Development.

● EDUCATION

- 01/04/2026 - Present: STUTTGART, GERMANY
 - **MASTER OF SCIENCE - UNIVERSITY OF STUTTGART**
Course: *Information Technology* | **Specialization:** *Embedded Systems*
Level in EQF: 7
- 01/07/2019 - 30/06/2023: CHANDIGARH, INDIA
 - **BACHELOR OF ENGINEERING - CHITKARA UNIVERSITY**
Course: *Electronics and Computer Science Engineering* | **Specialization:** *Embedded Systems and Internet of Things*
Level in EQF: 6

● WORK EXPERIENCE

- 26/06/2024 - 31/01/2026: BANGALORE, INDIA
 - **EMBEDDED SYSTEMS LEAD – FLO MOBILITY PRIVATE LIMITED**
LEAD FIRMWARE ENGINEER FOR AUTONOMOUS ELECTRIC ROBOT
 - Firmware Architecture & Development
 - Integration of Cloud Data Collection System
 - Firmware and Hardware Integration in OEM Robotic Device
 - Diagnosis, Debugging and Documentation
 - Leading a team of Firmware Engineers and Interns to develop and test firmware for robots
- 01/11/2023 - 24/06/2024: BANGALORE, INDIA
 - **ASSISTANT EMBEDDED DESIGN ENGINEER – INDIAN INSTITUTE OF SCIENCE**
FIRMWARE ENGINEER FOR MEDICAL DEVICES - DEPARTMENT OF DESIGN AND MANUFACTURING (DDM, FORMERLY CPDM)
Projects: *LifeBox, InsuFlo*
 - Firmware Architecture & Development
 - Electronics & Mechanical Integration
 - Risk Analysis & FMEA
 - Documentation as per IEC60601 regulatory requirements for medical devices

● INTERNSHIPS

- 26/07/2023 - 31/10/2023: BANGALORE, INDIA
 - **GRADUATE INTERN - EMBEDDED DESIGN – INDIAN INSTITUTE OF SCIENCE**
FIRMWARE FOR MEDICAL DEVICES - CENTRE FOR PRODUCT DESIGN AND MANUFACTURING (CPDM, NOW CPDM)
- 06/02/2023 - 24/07/2023: BANGALORE, INDIA
 - **FIRMWARE DEVELOPMENT INTERN – INVERTED ENERGY PRIVATE LIMITED**
RESEARCH AND DEVELOPMENT - ELECTRONICS: BATTERY MANAGEMENT SYSTEMS

● SKILLS

C++ | C | Embedded Systems | STM32 | ESP32 | Internet of Things | RTOS | Python | UI Development (TouchGFX, Webpages) | Digital Electronics

● LANGUAGE SKILLS

Mother tongue: **HINDI** (*Native*)

Other language(s): **ENGLISH** (*Proficiency: C1*)

● PORTFOLIO – PROJECTS

Project showcase: <https://kunaalkk1.com/#projects>. The QR code for projects URL on my personal portfolio website is here →

LIST OF PROJECTS:

1. LifeBox – An organ transportation device
2. USB to CAN Converter
3. Eye gaze and squint prediction
4. Wireless traffic control system (ESP P2P)
5. Hospital Automation System
6. Smart Farming System

