

# Balaji V

## CONTACT

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## DOMAINS

Embedded Firmware

Automation

IoT

## KEYSKILLS

Embedded C

Python

Rust

TouchGFX

RA6E1

K24

LPC4078

STM32 Boards

Git

ARM Cortex M4

Linker Script

MQTT

Azure Dev Ops

UART, I2C, SPI

Test Automation

AWS-IoT Core

FreeRTOS

## EDUCATION

B.E. (ECE)

Rajalakshmi Institute of  
Technology

2015-2019

## WORK EXPERIENCE

ENGINEER EMBEDDED FIRMWARE @HUBBELL  
FROM MAR 2021 – PRESENT

Engineer 1 – April 2025 - Present

- Mentoring Junior team members and improved efficiency
- Developed Customer requested feature and resolved bugs
- Merged feature branches with smooth integration

Engineer 2 – April 2024–Mar 2025

- Migrated legacy NV tool to modern IDE
- Worked on Linker Script and resolving complex errors

Associate Embedded Engineer 1 – Nov 2021–Mar2024

- Developed drivers and firmware for RA6E1 and K24 MCU
- Developed Unit-testing modules in Firmware
- Development of Test Automation using Python
- Testing DFW Process on various Hardware

Project Associate – Mar 2021–Nov 2021

- Development of Python Application for DFW Process

JR. EMBEDDED ENGINEER @ XREVOL  
FROM DEC 2019 – FEB 2021

- Cloud based access control device works with RFID, Mobile, GPS – LPC4078/ESP32- WROOM 32
- Smart door lock – STM32/BGM13P/ BGM111

## INTERNSHIP

EMBEDDED DEVELOPER @GREENVIRONMENT  
FROM MAY 2019 – NOV 2019

Realtime turbidity level identification using – TCS34725

## PROJECTS

ARCADE Game Console – ATTiny85 - Sep – 2021

CubeUNO – Python - Sep – 2021

CDE Your IDE – Python - Aug – 2021

Smart Mobile Charger – Node MCU – Jan 2020

Home Automation - Node MCU - Dec 2018