# Bharamu S K

bharamuk.1js15ec403@gmail.com
7892606885
linkedin.com/in/bharamu-kareppanavar-11b0b4146
Kengeri Bangalore 560060

I graduated from **J.S.S.A.T.E, Bengaluru**. **Experienced in Embedded Software Engineering and trained** in **Blended Advanced Design and Verification in Maven Silicon**. Passionate about technology and coding.

## Professional Experience

**Senior Embedded Engineer, M.S Technology Bangalore** 07/2019 – 12/2022
Provides solutions and innovation for Energy Management and communication. Bangalore, India

**Achievements/Tasks:**

- To Design, Develop, Implement and test the Embedded Software and Hardware.
- Strong knowledge of communication protocol **UART, I2C, RS232, RS485, SPI**
- Designed and developed the electronic zig for testing of PCB.
- **Tool Expertise: Atollic | Arduino | ESP-IDF | Code Compos Studio | Altium | Ki cad | Or Cad**.
- Implementation of **TCP/IP**, **MQTT** protocols in devices
- Generating reports, technical manuals, and software development documentation.
- Designing a PCB

## PROFESSIONAL TRAINING

**Advance Design and Verification training** 05/2022 – present
Maven Silicon Bangalore

**Embedded Systems Trainee,** 09/2018 – 05/2019
Cranes varsity a Training Division of Cranes Software International Ltd Bangalore

## Education

**Electronics and Communication Engineering.** 07/2015 – 06/2018
J.S.S. Academy of Technical Education Bangalore

**Diploma in Electronics and Communication Engineering** 07/2012 – 05/2015
B.V.V.S Polytechnic Bagalkot

**Secondary Education** 04/2012
S.S.S.B.V.V.S Hi-School Halingali

## Skills

Digital Electronics | Verilog | System Verilog | SVA | UVM | OOPS Concept | STA | Perl | Embedded C.

## TOOLS

Questasim | Modelsim | Quartus Prime |EDA Playground | Linux.

## Projects

**Router 1x3 Design and verification:**

The router accepts data packets on a single 8-bit port and routes them to oneof the three output channels - channel0, channel1, and channel2.

**Responsibilities:**

- Architected the block-level structure for the design.
- Implemented RTL using Verilog HDL
- Verified the RTL model using the system Verilog
- Synthesized the design

**Energy Meter Reading Using Wi-Fi and BLE:**

Designed and developed an end node to communicate with the meter using UART and then send the data to the gateway through Wi-Fi or BLE. Gateway uses 4G /2G module to communicate with head end system

**RDPR, (** *Rural Development Program):*

Built an End-node used for communication and control the water tank level, valve control,3 Phase motor Starter startup control, and gateway for communicating with the Server.

**GAS and Water Meter:**

In this project, we collected gas and water meter data using an LC sensor or REED switch. and send data using RS485

**Smart Lock Dual Authentication:**

The project aims to enhance system security. We used RFID to unlock the system and 4 Digit Password for the next step authentication

**Automatic Speed Controller using relay and magnetic sensors:**

The objective of the project was to control vehicle speed in schools and hospital premises.

**PCB designs:**

- Designed END Node, IR Probe, 4G/3G/2G Wi-Fi Gateway
- Designed 4:1 serial communication with an Energy meter.
- Designed Single Phase EV Charger for bikes.
- Designed Lora Node for Energy Meter Reading.
- Designed 3'Inch Thermal Printer for Energy Meter Bill Generation.

## Languages

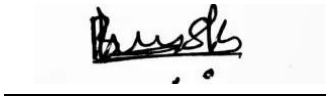
- Kannada
- English
- Hindi
- Telugu

## HOBBIES

Playing Cricket | Kabaddi | Travelling | Watching Movies

## Declaration

I, hereby declare that the information furnished above is correct to the best of my knowledge.



**Bharamu S K**
Bangalore