Bharamu S K

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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

Provides solutions and innovation for Energy Management and communication.

## 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

Maven Silicon Bangalore

## Embedded Systems Trainee,

Cranes varsity a Training Division of Cranes Software International Ltd Bangalore

# Education

## Electronics and Communication Engineering.

J.S.S. Academy of Technical Education Bangalore

## Diploma in Electronics and Communication Engineering

B.V.V.S Polytechnic Bagalkot

## Secondary Education

S.S.S.B.V.V.S Hi-School Halingali

 **Skills**

07/2019 – 12/2022

Bangalore, India

05/2022 – present

09/2018 – 05/2019

07/2015 – 06/2018

07/2012 – 05/2015

04/2012



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 one of 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