

EDUCATIONAL QUALIFICATION

Year	Degree	Institution/ School	Performance
2018	B.E (Electronics and Communication Eng.)	J.S.S Academy of Technical Education Bangalore	67.5%
2015	Diploma(Electronics and Communication Eng.)	B.V.V.S Polytechnic Bagalkot	77.44%
2012	Class X	S.S.S.B.V.V.S Hi-School Halingali	82.72%

PROFESSIONAL TRAINING

- Advance VLSI Design and Verification training.** [May'22 - Present]
Maven Silicon Bangalore.
- Embedded Systems Trainee.** [Sep'18 – May'19]
Cranes varsity a Training Division of Cranes Software International Ltd Bangalore.

PROFESSIONAL SKILLS

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

TOOLS

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

PROFESSIONAL EXPERIENCE

Senior Embedded Engineer, M.S Technology Bangalore

[July'19 - Dec'22]

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 | OrCad.

PROJECTS

Router 1x3 Design and Verification:

[Nov'22 - Nov'22]

- 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.It's a 3-layered network device as per the OSI reference model of the network.
- Implemented RTL using Verilog HDL.
- Designed and Verified using Self-Checking TB to operate three host networks and a packet length of 16 bytes
- Synthesized the design.

RAM Verification Project:

[Oct'22 - Oct'22]

- Designed and Verified 16x8 synchronous dual port RAM memory and single RAM Memory. The Memory model is capable of storing and retrieving 16bits of data as per address location.
- Perform write to any memory location, read from the same memory location, read data should be the same as written data
- Assert reset in between write/read operation and check for default values.

Energy Meter Reading Using Wi-Fi and BLE:

[Aug'19 - Aug'21]

- 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 the 4G / 2G module to communicate with headend system.

GAS and Water Meter:

[Sep'21 - Mar'22]

- This project used to collect the water meter data and Gas meter in Real time.
- In this project we read GAS and Water Meter data using LC sensor or Reed switch. And send the data using the RS485 protocol.

Smart Lock Dual Authentication:

[Jan'18 - Mar'18]

- This project aims to enhance system securities.
- We used RFID to unlock the system and 4-digit Password for the next step authentication.

HOBBIES & LANGUAGES

Cricket | Kabaddi | Cooking | Kannada | English | Hindi | Telugu.

DECLARATION

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

Date:

Place: Bangalore

[Bharamu S K]