

# GANESH SABBANA

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## Professional Summary

- 5+ years of experience in conceptualization and development of embedded products and solutions.
- Specialized skills in both hardware and firmware design, software programming and hardware integration.
- Diverse experience in testing, control and system integration.
- Good analytical, problem solving, creative and decision making skills
- Experience in I/O interfaces, memory, device performance testing and optimization.
- Good embedded programming skills in C.
- Extensive experience in design and development of embedded systems for real time applications.
- Experienced in designing and developing hardware solutions that meet customer needs and maximize the efficiency.
- Expertise in Analog/Mixed signal circuit designs and Digital circuit designs.
- Proficient in understanding the electronic hardware circuit and design as per requirement, managing the large assemblies, interfaces, microcontrollers, electronic peripherals and data communications and communication protocols.
- Developed the inhouse hardware solutions that enables the company to reduce the costs and time lines.
- Experience in BOM cost optimization.
- Experienced in PCB layout and routing concepts.
- Expertised in microcontroller selection and building external circuitry for its peripherals.

## Technical Skills

- Programming Languages: C, Embedded C, HTML.
- Compilers/Editors: STM32CUBE IDE, STM32CUBEMX, Keil.
- Hardware Tools: Microcontroller boards, STM32, ATMEL AVR, ESP32.
- Communication Protocols: SPI, UART, USART (Serial communication), I2C, CAN, RS232, RS485, RTU-Modbus etc.
- Technologies: WIFI, Bluetooth, Real time kinematics, GPS, GSM/GPRS.
- Networking Experience: TCP/IP, Testing troubleshooting embedded systems.
- Hardware design, development, Hardware functionality testing, validation and debugging.
- Schematic design for microcontrollers and mixed (analog & digital) signals, Analog and digital electronics and PCB Layout.
- Analyze, read and create schematic and understand the circuit design.
- Simulation of electronic circuit and component using simulation tools LTSPICE, Proteus.

## **Professional Experience**

### **Senior Embedded Engineer (Hardware and Software)**

#### **Coresonant Systems Pvt Ltd**

##### **Secunderabad (01/2019-Current)**

- Designed and developed Real-time Kinematic Positioning(RTK) based devices for accurate position in GNSS of specialized vehicles with the feature of OTA for firmware upgrading.
- Designed and developed GSM/GPRS based vehicle navigation trackers with a lot of features GPS,vehicle battery etc.
- Developed solution for smart home controller switch, intelligent gate system,industrial smart equipment.
- Developed solution for data accumulating of vibration sensors,oil pressure sensors,engine coolant and temperature and humidity sensors.
- Developed universal gateway/data accumulator for multiple sensors,hardware peripherals,accelerometers, gyroscope,touch screen, proximity etc.
- Implement the applications for hardware testing.
- Designed schematics and PCB layouts for Prototypes,inhouse testing and debugging systems.
- Developed solutions for vehicle tracker device battery charging.
- Developed wireless data transferring devices.
- Performed soldering, hardware debugging and testing on prototypes brought up by multimeter and other testing tools.

### **Junior Embedded Engineer (Hardware and Software)**

#### **Flowcentric technologies (india) Pvt Ltd**

##### **Hyderabad (03/2018-01/2019)**

- Developed GPRS Based Automatic street light controller as a part of Central Control and Monitoring System (CCMS) for Energy Efficient Service Limited (EESL).
- Performed hardware debugging and testing.

## **Education**

Godavari Institute of Engineering and Technology, Rajamahendravaram, 2012-2016  
B. Tech in Electronics and Communication Engineering.

**Personal Information**

Gender : Male  
Date of Birth : 01 June 1995  
Marital Status : Unmarried  
Languages known : Telugu,English,Hindi  
Address for communication : H.No 50-148, Near Govt Hospital, Bonu street,  
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AndhraPradesh, India 535591

**Declaration**

I hereby declare that the above particulars of facts and information stated are true, correct and complete to the best of my belief and knowledge.

Place:

Date:

**GANESH SABBANA**