

## Abhishek Gowda N.D (3.3 Years' Experience)

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### Objective

To obtain a creative and challenging opportunity where I would be able to learn new things, grow personally and professionally and also contribute significantly to the growth of the Organization.

### Professional Experience

1.8 years - **Elecsis Infotech** – Aug 2023 to Present → Role: **Embedded Software Developer**



1.5 years - **Ram Engineering Co** - Feb-2022 to Jul-2023 → Role: **Quality Inspector**

- Proficient in programming with **C**, **C++** and **Embedded C** along with hands-on development experience.
- Extensive experience with communication protocols such as **I2C**, **SPI** and **UART**.
- Skilled in working with microcontrollers, including **Holtek** and **ARM7 LPC2148**.
- Expertise in implementing and configuring **ADC**, **DAC**, **Timers**, **UART**, **Interrupts** functionality.
- Proficient in interfacing and programming various peripherals and modules, such as: **LEDs**, **Relays**, **Stepper Motors**, **4x4 Keypads**, and **PWM** modules.
- Communication and identification devices: **GSM**, **RFID** and **Fingerprint** Modules.
- Display devices: **Glass LCDs** & Memory devices like **EEPROM**.

### Technical Skills

- **Programming Languages** : **C**, **C++** and **Embedded-C**
- **Tools Used** : Keil u Vision, Microsoft Office, Excel
- **Micro-Controllers** : ARM7 LPC2148.
- **Peripherals** : PWM based designs for DC, Light intensity control and Stepper Motors, Serial ADC/DAC, Memory(EEPROM), GSM-SIM900, Various analog sensors, RFID, fingerprint Module-R305

### Projects:

**Company:** ELECSIS INFOTECH (OCT 2023 – Present)

#### 1: LANTERN BOARD AND CONTROL PANEL AUTOMATIC TESTING EQUIPMENT

**Hardware/Software:** Keil u Vision, Serial Bootloader, Terminal, CRO, Flash Magic.

**Role:** Firmware development for ADC and UART Code for ARM7 LPC2148.

#### Description:

- Designed and developed firmware for automated testing of lantern boards.
- Implemented PWM signal capture using the CCP module and analog voltage measurement through ADC.
- Developed DAC functionality to generate variable duty cycles for controlling light intensity.

- Optimized firmware to enhance testing efficiency and reduce manual intervention

## 2: EEPROM BASED ELECTRONICS DIG HALER COUNTING MACHINE

**Hardware/Software:** HT-IDE3000, Terminal, HOLTEK C Compiler (V3), CRO.

**Role:** Firmware development for GPIO, TIMER INTERRUPT, SLEEP, SCOM, EEPROM Driver code for HT66F004, BIT BANGING UART code for HT66F004, Glass LCD interfacing with HT66F004, Basic Application Code.

### Description:

- Designed and developed firmware for a digital dose counter with low-dose warning indicator to assist Asthma and COPD patients.
- Implemented EEPROM functionality to store last recorded counts, ensuring data retention even during power loss.
- Developed power-efficient firmware with a sleep mode activation every 15 seconds to extend battery life.
- Optimized firmware to enhance accuracy and reliability of dose counting functionality.

## ACADEMIC DETAILS

- Bachelor of Engineering from EWIT Bengaluru, (2016 - 2020) - CGPA- 7.08.

## PERSONAL DETAILS

|                   |   |                         |
|-------------------|---|-------------------------|
| Date of Birth     | : | 22 June 1998            |
| Gender            | : | Male                    |
| Languages Known   | : | English, Kannada, Hindi |
| Permanent Address | : | Bangalore- 560091       |

Place: Bangalore  
Date:

Signature