# Swetha

B.E. (Electronics Engineering)
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## Profile Summary

Dynamic, Self-Motivated, Solution-focused Software Engineer with 4.4 years of experience in various stages of designing, coding and testing of embedded and software applications.

## Educational Details

B.E. (Electronics and Communications Engineering) from Sahyadri College of Engineering and Management, Adyar, Karnataka with CPI-6.4

## Skills

**Programming Languages:** Embedded C, QML, Basic C++.
**Operating System:** Windows, Linux – Virtual Machine.
**Tools:** Qt, CCS, Keil, Visual studio and Android Studio.
**Database:** Microsoft SQL.
**Repository:** Tortoise SVN, Git.
**Communication Modes:** SPI, USB, UART.
**Code Review Tool:** Gerrit, Jira.
**Other Tool**: Confluence, Zeplin.

## Professional Experience

**L & T Technology Services**

- **Videojet Printer**                                                                **Nov'19-Present**

  **Designation:** Senior Software Engineer
  **Role:** Developer**,** Tester
  **Language:** C++

  **Description:** Maintenance of Videojet CIJ printer software
  **Responsibility**:
  System and Unit level testing of existing and newly developed features of the printer.
  Designing and developing test case and execute the test cases.
  Code development for minor bug fixes.

- **Moldev**                                                                                 **May'19-Oct-19**

**Designation:** Engineer
**Role:** Developer
**Language:** Embedded C

**Description:** Develop peripheral device driver to communicate with different modules
**Responsibility**:
Design and Development of interface between STM32 microcontroller and ADC, DAC, SPI, I2C and UART input devices.
Code Development for ADC, DAC, SPI, I2C and UART drivers
Development of motor driver (TMC5072) using SPI interface.
Testing of UART and SPI communication using logic analyser.
Testing of DAC and I2C output using oscilloscope.
Debugging and testing using Keil IDE.
Documentation of unit and system test case, test plan and test results.

- **CSN- UI application**                                                            **Jan'18 -Feb'19**

**Designation:** Engineer
**Role:** Developer
**Language:** QML

**Description:** Design and development of GUI application for China southern airlines. Maintaining the code base for SVDU-TPMU module. Developing required entertainment features such as to display movies, display tv episodes, play games and music and to provide information related to China southern airlines.

**Responsibility**:
Developing & Testing GUI for SVDU and TPMU module using QML as per the requirements.
Basic Backend code modification using C++.
Designing of UI components based on designs provided in Zeplin.
Unit testing of the all modules developed.
Configuring and releasing the work products as per the defined configuration process.

- **Jabil BOM Conversion**                                                          **Oct'17-Dec'17**

**Designation:** Engineer
**Role:** Developer, Tester
**Language:** C#

**Description:** The Scope of Work included developing UI BOM merging tool and backend logic to obtain the file location of two different BOM files (excel files) and store in the output file in desired location.
**Responsibility:**
Development of UI tool and backend logic required to obtain data from two different excel files and generate a required format excel output file.
Code development for backend logic using Visual studio C#.
Testing of the tool functionality.

Manual verification of the output file.

- **Nano Level Liquid Handler**                                                                         **May'16-Sep'17**

**Designation:** Engineer
**Role:** Developer
**Language:** Embedded C

**Description:** Nano level liquid handler is a closed loop system used to dispense liquid in microlevel [min: 4ul] by monitoring the pressure generated in the system. The scope of work included modifying The existing code as per the project requirement, introducing USB communication to exchange data between embedded system and android device, acquire data from pressure sensor, working of syringe pump.
**Responsibility:**
Code modification required for syringe pump (stepper motor), Pressure sensor.
Develop code for backend logic using embedded C.
Development of android application to receive and transfer data to microcontroller using USB.
Carried multiple experiments to obtain the pressure values generated from the movement of syringe pump.

- **Diaonics**                                                                         **Dec'15-Apr'16**

**Designation:** Executive Trainee
**Role:** Developer
**Language:** Qt-C++

**Description:** Scope of work was to develop UI and Backend operation using QT C++. Input data provided through UI was stored in xml file format using serial communication.
**Responsibility:**
Development of application UI using QT widgets.
Developmet of functional backend logic.

## Additional Skills/Attributes

- Have done POC projects on android application – USB Communication
- Always keen to learn new things, punctual, motivational, ready to help others and honest.
- Good interpersonal and intrapersonal communication skill.

## Personal Details

**Date of Birth:** 24$^{nd}$ August 1993
**Languages Known:** English, Hindi, Kannada and Tulu
**Permanent Address:** 4-93/9 Shiva Shakti Nilaya, Malemar road, Ashoknagar post, Mangalore 575006.
**Hobbies:** Travelling, Dancing.