

MARATHE TEJASWINI GORAKH
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CAREER OBJECTIVE:

To be associated with a progressive organization that provides an opportunity to apply my knowledge and to develop my skills in technical as well as management aspects.

PROFESSIONAL SUMMARY:

- Embedded Engineer with **Two years and 7 months of experience** in E-infochips Pvt. Ltd. (An Arrow Company), Ahmedabad.
- Software development in C / C++ programming language on Linux platform.
- Network Programming in C/C++ programming language.
- Experience in QT Environment, QT Development & Debugging tools.

TECHNICAL SKILL:

- **Programming Languages** : C, C++, Embedded C, Linux, Python Beginner, Socket Programming.
- **Simulation & Design Tools** : Keil uVision4 IDE.
- **Compilers** : GCC Compiler, Atom, Sublime Text, Turbo -C.
- **Operating System** : Linux Internals (System Programming), Windows.
- **Protocols** : I2C, SPI, CAN, TCP/TP.

PROJECT HANDLED:

Project 1 : PTC OBU.

Description : This project is of Siemens railroad, working on Energy Management (EM) unit. Locomotives can be equipped with an optional Energy Management (EM) device that interfaces with the OBU to provide guidance or throttle control for more fuel-efficient operation of the train .the OBU continually provide track data ,train consist data, location data, speed data and the current breaking curve information to the EM will use this data to display and possibly perform train handling through a separate EM system and HMI channel.

Contribution	<ul style="list-style-type: none">• Project requirement gathering and understanding.• Modification in existing EM classes and Telegram messages as per version specific requirement.• Development of new EM classes and Telegram messages based on customer requirement.• Defect fixing and derive a new unit test as per energy management class development.• Execution of test cases and analyzing the output of it.
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Platform	Windows
Development tools	QT 4.8, Visual Studio Code

Project 2 Description

- : Connected Health.
- : In this project I have designed a UI Application with the help of all QT component. There was two UI screen was provided, on one screen menu navigation is present and other screen is for remote controller for menu navigation. After UI designing of both the screen, I have control all the menu with help of remote controller for that D-bus is used for communication between two app.

Communication Protocol: D-bus

Environment: C++, QT 5.15 Framework and Software.

Contribution	<ul style="list-style-type: none"> • Project requirement gathering and understanding. • Development and update C++ code. • UI screen of Menu and submenu, remote control screen. • UI screen video calling and Message remainder. • UI screen for calendar control. • Display video from internet stream. • Move navigation controls to separate application.
Platform	Linux
Development tools	Ubuntu 18.04, QT 5.15.

Vector Project

: Engine or Cabin Temperature Monitoring for Light Motor Vehicles Using in Vehicle Networking.

Software Used Description

: Keil uvision4 IDE, Flash Magic etc.

: This project mimics the CAN Network implementation inside auto-mobile where a node (Engine housing) collects the engine temperature and transmits it to the second node (Dashboard) through the CAN protocol, where we can monitor the temperature data.

Degree Project : Internet Interface for Automation System.
Software Used : Keil uvision4 IDE, Flash Magic etc.
Description : Main purpose of our project is to communicate with the remotely located device to provide wireless control to the devices from various location.

Diploma Project: Cell Phone Tower Monitoring Using GSM.

Software Used : Keil uvision4 IDE, Flash Magic etc.
Description : This project monitors the health of the Cell phone tower based on the vibration and Temperature sensor. If vibrations and temperature rises above the set limit the controller will detect it, and will issue an alarm and send the SMS indicating the cause.

EDUCATIONAL QUALIFICATION:

- **Advanced Embedded System Training** from Vector Institute, Hyderabad.
- Bachelor of Engineering in Electronics and Telecommunications, Savitribai Phule Pune University with 64.94% in 2017.
- Diploma in Electronics and Telecommunications, MSBTE with 80.00% in 2014.
- SSC from State board of Maharashtra with 80.55% in 2011.

PERSONAL DETAILS:

Date of Birth : 19/12/1995
Mother's Name : Anjana Gorakh Marathe.
Father's Name : Gorakh Vinayak Marathe.
Gender : Female
Marital Status : Unmarried
Nationality : Indian
Language Known : Marathi, Hindi, English.

Declaration:

I hereby, declare that the information given above is true to the best of my knowledge.

Date:

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