

DARSHAN PARMAR

OBJECTIVE

To grow in an organization that utilizes my technical skills and knowledge. Provides me an opportunity to face technological challenges with emerging technology and utilize my communication skills to contribute to achieving the organization's goal.

EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER, ALSTOM

Jan,2022-Present

Responsible for Development and application plan for Train Control Management System and subsystems from the Functional requirement stage to detect defects early in the SDLC along with Functional architects by developing model at a system level.

Visualize the Functional behavior of vehicle system design and manage simulation teams to validate the functional concept and derived validation in HW/SW Components from the initials stage to improve quality, time, and delivery

Responsible for fulfilling at the application level all feature requirements for the Door control unit of the metro train using FBD and Structure text language in consideration of IEC-61131-3 Standard

Agile with Global teams to rise defects and handle WI according to sprint with the following V-Model of SDLC.

EMBEDDED SOFTWARE ENGINEER, INOWEAVE

May,2019-Jan,2022

2.7 years of experience in Embedded controller work in real applications. Responsible for making embedded solutions as client requirements.

Work on STM32 series, Nuvoton ARM-cortex Microcontroller. Use features of MCU like Timer, GPIO, ADC, PWM, DMA, USB, FLASH write-read, external FRAM, RTC and try to make a fully optimized solution.

Known about different types of communication protocols USART, UART-232, Serial-485, I2C, SPI, QUAD-SPI, Modbus.

Also, make a solution using Free-RTOS. Familiar with ESP-IDF protocol for ESP-WiFi module.

Develop temperature controller, pressure control, autoclave, frequency to voltage, UV disinfection controller, and many other types of projects as a requirement.

Build the different types of applications on display using seven-segment LED, Dot-matrix LED-LCD display, TFT Display.

Experience in textile field base as well as an embedded solution.

EMBEDDED SOFTWARE ENGINEER TRAINEE, NATIONAL INFOTECH**March,2019-April,2019**

During this Training being familiar with STM32F0 series Microcontroller's features and learn about seven segments LED display, dot-matrix LCD display, push-button, Timer, GPIO, UART, ADC, DMA.

ENGINEER TRAINEE, BHARAT SANCHAR NIGAM LIMITED(RTTC)**Dec,2018-Jan2019**

I have learned about optical fiber and mobile communication and gained great insight into the working of network systems that are going around the world.

ENGINEER TRAINEE, ADANI HAZIRA PORT PVT. LTD.**May,2018-Jun,2018**

Gained understanding of instrumentation & automation procedures by closely monitoring the automation control room of the liquid terminal.

TECHNICAL SKILLS**Programming Languages:** Embedded C, C, C++**Front End Technologies:** IOT, Free-RTOS, STM32 and Nuvoton Micro-Controller Firmware, Arduino Super Loop Firmware, Touch-GFX**Latest Technologies:** Arduino, HC-05 Bluetooth Module, ESP WiFi Module**Tools:** Visual Studio Code, Keil, Eclipse, ST Software Environment, Basic Knowledge of Linux, SVN tortoise, Git, IBM-RTC, Door, Control Build, ESP-IDF, Serial Logging Software, Logical Analyzer, Oscilloscope, Function Generator**Familiar OS:** Windows, MAC-OS

PERSONAL SKILLS

Software optimization skill

Good debugging ability

Ability to read a schematic

Problem-solving

Teamwork skill

Leadership skill

EDUCATION**DR. S. & S. S. GHANDHY COLLEGE OF ENGINEERING & TECHNOLOGY, SURAT-395001****B.E. - ELECTRONICS AND COMMUNICATION (2015 - 2019)**

CGPA/CPI: 7.61/7.22

SANSKAR BHARTI VIDHYALAYA, SUART-395005**12TH CLASS SCIENCE (2013 - 2015)**

PERCENTAGE: 67.23 %

SANSKAR BHARTI VIDHYALAYA, SUART-395005

10TH CLASS (2012 - 2013)

PERCENTAGE: 82.50 %

PROJECT

Smart Bill Prediction And Control System: The main goal of this project is to predict the energy bill and control appliance through Bluetooth command.

Security Automatic Door: Project design for security purposes such as object detection gives different levels of alarm.

E-Learning Website: This website provides myriad lessons about the Electronics communication system through interactive lectures.

CERTIFIED
COURSE

C++ Object-oriented programming language

Core JAVA

Advance JAVA

Siemens Automation – PLC, SCADA-HMI, Mechatronics

EXTRA ACTIVITY

Participated in two days workshop on “CISCO NETWORKING” – 2016.

Attend two days of workshop on “BLUETOOTH OPERATED ROBOT AND IOT” – 2017.

Got 2nd prize in “Buzzer-Hunt”

Got Consolation prize in “Chess” and “Badminton”

Played the role of “Representative” and “Coordinator” in the tech fest held in college.

PERSONAL
DETAILS

Date of birth: 25-07-1997

Languages: Gujarati, Hindi, English

Hobbies: Learning new things, Listening to music, Cycling, Travelling