## Abhishek Dongre

**Embedded Firmware Engineer** 

### Profile

Embedded Firmware Developer with 2 years of experience in Microcontroller Interfacing, Device Driver Development and Model based software development.Proficient in embedded C programming.Expertise in Pointers,RTOS and Arm architectures.Proficiency with I2C, SPI,MODBUS protocols.

## Employment History

## Embedded Design Engineer at Electrolab Group Pvt Ltd, Ghansoli

March 2021 - Present

- Developing GUI Solutions for Touch screen user interface using Embedded C/C++, QT & SQL database on rasberry Pi platform.
- Developed Embedded software solution for project Bathless Heater, controlling 8 or 14 Heaters using timer based PWM on Silabs 8051 controller
- Designed & Developed Firmware for measuring the thickness of pharmaceutical tablets & calibrating the thickness according to the requirement.
- Developed firmware & implemented logic for managing the memory for resource constrained microcontroller i.e C8051F020.
- Added printing feature 80C, 40C for the existing product.
- Resolved complex issues for touchscreen user interface.
- Worked on Adobe Postscript printing description language
- Worked on Controllers like LPC1768,1788,C8051F020,PIC24FJ2410.

# Embedded Software Engineer at Embin Technologies Pvt Ltd, Dahisar

December 2019 — December 2020

- Designed & Developed firmware for IO board based on RS485,
   MODBUS RTU communication for Atmega controller.
- Developed device driver for IO Expander IC module based on I2C Communication.
- Contributed to the R&D of medical based project i.e Glucometer.
- Undergone training in FreeRTOS operating system on STM32 controller.
- Designed and implemented Bootloader.
- Wrote STM32 header file for memory mapped peripherals.
- Involving in full software development lifecycle including requirements, design, implementation, testing, and documentation.
- Reported the schedule and technical status on a regular basis and participated in program reviews internally and with the customers.
- ATmega 328P,STM32F446RE,STM32L476RG.

#### **Details**

Ulhasnagar, 421004

Dist - Thane, Maharashtra

8087508494

dongreabhi384@gmail.com

### Links

Linkedin

Github

### **Technical Skills**

C/C++

RTOS/LINUX

ARM cortex architectures M3/M4

STM32/8051/Atmega/PIC24F/ LPC1768

I2C/SPI/RS485/RS232

CADSOFT EAGLE

IDE - Keil/STM32 cube/Atmel studio/Eclipse/MPLAB X

AB Micrologix 1400/Schneider Electric Twido/Siemens Simatic/Delta

Wonderware
Intouch/Siemens Simantic
Wincc

JTAG/SWD

### **Trainee Engineer at SMEC Automations Andheri**

December 2019 — December 2020

· Assisted in the Training of PLC and SCADA based softwares.

### Education

# **Bachelor of Electronics Engineering, Bharat College of Engineering, Thane**

July 2011 - July 2017

(6.46CGPA)

### **HSC, New English Junior College**

June 2010 - July 2011

(63 %)

## SSC, Guru Nanak High School, Ulhasnagar

June 2008 - July 2009

(77.23%)

### Certification

Cortex M4 Architecture, Udemy

June 2020 — June 2020

### **Embedded system Design, Bicard**

June 2019 — November 2019

### **Certified Automation Engineer, SMEC**

July 2017 — December 2017

## Personal Details

Date of Birth : 2nd April 1994

Gender :Male

Marital Status : Unmarried

## Languages

English, Hindi, Marathi

### Hobbies

Playing Cricket & Carrom, Swimming, Reading Books, DIY Projects.

### **Declaration**

I hereby by declare that all the above given information is true and correct to the best of my knowledge.

Date:

Place: Ulhasnagar (Abhishek Dongre)