Ashutosh Mishra

(*Embedded Software Engineer*)

**ashutoshnp27@gmail.com**

**+91 9765608793**.

# Summary

Embedded System professional with 5 years of experience in Medical Device Software Domain Successfully designed and developed Firmware based applications and presently working in the firmware development for automotive domain.

# Experience

## Tata Elxsi Ltd.

Embedded Software Engineer (*Sep 2019*)

**Roles & Responsibilities**

* Analyzing requirements for device software.
* Designing different software modules.
* Working on the MATLAB (GUI creation)
* Driver development and UART communication with MATLAB
* Development and delivery of various software modules
* Source code writing in the C language

## Knorr bremse Ltd.

## Embedded Software Engineer

## (Sep 2022 - Present)

Embedded Software Engineer

* Writing the C source code in the IDE keil, stm32cube IDE
* Writing the driver code for UART, SPI, CAN communication bus
* Integration of trace32 tool in various project
* Working on the UDS protocol
* Features development of trace32 tool using CMM script
* python scripting for the automation (triggering the trace32 using python library)
* Writing the CMM script to provide the new feature for debugging.
* Working on the infenion tc3xx controller
* New features development in trace 32 using infenion controller.
* Troubleshooting on the CANoe tool (CAN messages)
* Working on the CAN protocol for communication between ECU.
* Feature development for UCB flashing (using CMM script).
* Python scripting for the s19 file encryption.

# Skill Summary

* Embedded C
* Peripheral Driver Development
* Perl/shell script
* Embedded Linux
* MATLAB(GUI)
* Practice script (.CMM)
* Labwindow CVI/Lab view
* Python script
* RTOS (Free RTOS)

# Projects

## Electro Surgical Generator

Duration: 1 year 6 months

* + Design and developed MATLAB GUI.
  + Configuration and development of code on STM baord.
  + Automation test set up development (Labwindow CVI).
  + Peripheral driver development like UART, SPI.

## DevEnv Automotive tools and infrastructure

* + Scripting of UCB flahsing in various Project
  + Script to Flash the UCB using CMM scripting.
  + Script to disable the watchdog of Infenion Controller(tc3xx,tc2xx)
  + Triggering the Trace32 tool using the Python library
  + Written python script to encrypt the software file (.s19,hex file)
  + Shell scripting for make tool.

# Education

* Completed PG-Diploma in Embedded System Design from CDAC Acts, Pune in 2019
* Completed BE in Electronics & Telecommunication with from Mumbai University in 2018
* Completed Diploma in Electronics & Telecommunication from Maharashtra State Board Technical Education in 2015
* Completed SSCfrom Maharashtra State Board in 2012

# Personal Information

Name: Ashutosh Mishra

Address: Room No.14, Akruti building Achole cross,road Nallasopara (East) Palghar-401209 Languages Known: English, Hindi, and Marathi

DECLARATION: “*I hereby declare that the information given above is true to the best of my knowledge”*