

RESUME

MANOHAR TANNA

Email: manohartanna12@gmail.com

Mobile: +91- 7981521358.

CAREER OBJECTIVE:

Seeking a position to utilize my skills and abilities in a competitive field that offers Professional growth while being Resourceful, innovative, and flexible.

SUMMARY OF EXPERIENCE:

3 years and 11 months of experience as an Embedded Software Engineer. Worked on **Bootloader, Bare Metal and Device Drivers** in controllers, and communication protocols like **I2C, UART, SPI**, Bluetooth Low Energy (**BLE**), **CAN**, and **UDS**.

PROFESSIONAL SYNOPSIS:

- ❖ Good understanding of **Data structures** and algorithms.
- ❖ Good understanding and worked on communication protocols like **I2C, UART, and SPI**.
- ❖ Good understanding of the **CAN** protocol.
- ❖ Good understanding of the Unified Diagnostics Services (**UDS**) protocol.
- ❖ Worked on various sensors like **current, temperature, EEPROM, PMIC, IO Expander**, etc.
- ❖ Basic understanding and worked on **BLE**(Bluetooth Low Energy).
- ❖ Good understanding of the MicroController and worked on the **AVM, TI, Nordic, STM, and INFINEON**.
- ❖ Basic Understanding **CAPL** scripting.
- ❖ Debugging the Controller, and familiar with IDE.
- ❖ Usage of the Oscilloscope.
- ❖ Project Planning & Execution.
- ❖ A strong team player with excellent analytical, negotiating, communication, problem-solving, and interpersonal skills.

SKILLS:

- ❖ **Languages:** - C, Embedded C, C++, BareMetal, Device Drivers, Bootloaders.
- ❖ **Microcontrollers:** - TI, STM, NORDIC, INFINEON.
- ❖ **Protocols:** - I2C, SPI, UART, CAN, UDS, Bluetooth Low Energy (BLE).

TOOLS:

- ❖ Canalyser.
- ❖ UDE.
- ❖ Rhapsody.
- ❖ Polyspace.
- ❖ Vector-Cast.
- ❖ Oscilloscope.
- ❖ GIT.
- ❖ JIRA.
- ❖ DEVOPS.

Role/Designation	Employer	Duration	Years, Months
Embedded Engineer	ALTEN INDIA Pvt LTD	March 2023 to Present	1 Year 11 Months
Embedded Software Engineer	VVDN Technologies Pvt Ltd	July 2021 to Jan 2023	1 Year 6 Months
Intern (Embedded SW)	VVDN Technologies Pvt Ltd	Jan 2021 to May 2021	6 Months

EDUCATIONAL QUALIFICATIONS:

Qualification	School/College	Name of the Institution	Year of Passing	Percentage/CGP A
B.tech	Electronics & Communication	Lovely Professional University	May-2021	CGPA 6.98
Intermediate	TSBIE	Narayana Junior College	MAY-2017	CGPA 8.77
SSC	BSETS	PVHS	MAY-2015	CGPA 8.3

PROJECTS HANDLED IN ALTEN:

Title : MBL(Manufacture Bootloader)

Client: ZF

Description: The Manufacturing Bootloader, is flashed in the ECU and enables some of the basic Functionalities like enabling communication interface(CAN) and locking the data sectors (JTAG, DFLASH, PFLASH), and MBL provide complete security to the hardware.

Roles and Responsibilities:

- ❖ Bug Fixing.
- ❖ Created design for code using Rhapsody, Static Analysis using polyspace, Unit testing for complete code flow using Vector cast.
- ❖ Created routines for some of the test cases using CAPL scripting for UDS.
- ❖ Automated the test scripts using the CAPL script.
- ❖ Updating the code for creating the diagnostic services like HSM disabling.
- ❖ Updated security Library for JTAG locking.
- ❖ Testing the complete functionalities, and updating the release notes and user manual.

PROJECTS HANDLED IN VVDN:

Project 1

Title: Design Of Macro Cell Remote Radio Head(RRH) N78 8T8R (Frequency 3300 to 3600MHz).

Client: HFCL

Description: HFCL_8T8R is RRH and it contains 8 transmission and 8 receiving modules, for cellular network for

the 5G band(3300 to 3600 MHz). and I am worked on the microcontroller(TI) part.

Roles and Responsibilities:

- ❖ Developed the applications on various sensors (Current, Temperature, EEPROM, PMIC, IOExpander), using I2C communication protocol and understanding datasheets of the sensors.
- ❖ Created communication between RFSOC and BMC(Microcontroller) using I2C as a medium interface.
- ❖ Developed BMC console using UART interface.
- ❖ R & D for some extra feature implementation, doing necessary engineering documentation like code flow chart, product requirement documents, etc, and debugging the code and bug fixing.

Project 2

Title: Video conferencing solution (Camera and Speaker).

Client: Kent

Description: It's a conferencing speaker with a camera and works with a remote using BLE(Bluetooth low energy).

Roles and Responsibilities:

- ❖ Understanding the basic functionalities of BLE(Bluetooth Low Energy).
- ❖ Developed the auto-connect feature and all the functionalities in the remote.
- ❖ Supported the Development team.

Personal profile:

- | | |
|-------------------|------------------------------|
| ❖ Date of Birth | : 25 th July 2000 |
| ❖ Marital status | : Unmarried |
| ❖ Languages | : English, Hindi, Telugu |
| ❖ Current Company | : ALTEN INDIA Pvt Ltd |

DECLARATION:

Apart from the above specified projects I am involved in some ongoing projects. I hereby declare that the above information furnished by me is true to the best of my knowledge and belief.

Place: Hyderabad

Date:

T. Manohar.