Name: JOSHI SWAROOP PADMANABH

Career Objective

To secure a sufficiently challenging and responsible position in an organization where I can contribute my skills of ML, Automotive domain, and Image Processing Algorithm and Technical Experiences of a Mechatronics Engineers. I am certain that my presence in your team will prove to be beneficial to your organization.

Educational Qualification

Qualification	University/Board	Month- Year	CGPA/ Percentage
M. Tech	Vellore Institute of Technology (VIT) University,	2016-18	8.67 /10
Mechatronics	Chennai		
B.E. Mech	Savitribai Phule Pune University	2011-15	64.01%
H.S.C.(Science)	MSBSHSE, Pune	2010-11	63.67%
S.S.C.	MSBSHSE, Pune	2008-09	83.07%

Experience

Name Of Company	From	То		
Larsen And Toubro Limited: E&A, Ahmednagar	1 st Sept 2017	31 st Sept 2018		
V S Technology Corporation India (Japanese), Bengaluru	1 st June 2019	1 st March 2020		
SpOvum Technology Pvt Ltd, Bengaluru	1 st Sept 2021	30 th Sept 2022		
SPHINX Worldbiz Limited, Pune	19th Oct 2022	Present		

Experience Summary

- ➢ 3.10 years of experience in Design and Development (R&D), Automotive Domain, Testing
- ➤ Worked in MATLAB, AutoSAR, STM32CubeIDE, Testing, EB Tresos Studio,
- Work like Live project on Monitoring system With Micro Medical Device EMS and image processing with MATLAB, CAN, Serial
- Good Experience with C, C++, Embedded C use in automotive software development and 16/32-bit Microcontroller uC family NXP S32Kx, Renesas RH850, Infineon TC3/4X
- ▶ Worked on Automotive communication protocols (CAN-FD, Ethernet), Functional safety, ISO 26262,
- Hands-on experience in automotive development tool Da-Vinci, EB Tresos MCAL MATLAB/SIMULINK, Automotive testing and code generation by dSPACE

SPHINX WORLDBIZ LIMITED working on-

Project Name: MCAL configuration (Duration – 4 months)

Project Description: AUTOSAR MCAL configuration with NXP144 EV board with EB Tresos. **Role:** Development and integration with CAN

Responsibility: Work on integration with EB tresos and NXP144 EVB. Configuration and generation of .c

and .h code during MCAL configuration.

Technologies: EB Tresos, MCal, CAN, LIN, MCU, S32K144-Q100, Infineon TC38XQ

Project Name: Driver Assistance System White Box Testing by Tessy Tool (Duration – 2 months) Project Description: The driver assistance system is designed to assist drivers in various scenarios, such as lane keeping, collision avoidance, and adaptive cruise control.

Role: Development and integration with Tessy Tool

Responsibility: Work on configuration and integration with Tessy Tool. Generation & execution of test cases with Keil μ Vision6.

Technologies: Tessy Tool, keil µVision6, STM32F429- Nucleo.

SPOVUM TECH, Bengaluru working on-

Project Name: Development of EMS monitoring system of Embryo IVF- Medical device. (Duration- 1.2 year)

Project Description: Design and Development of Ems with PCB, Image vision system.

Role: Teams leaders and Integration of Products.

Responsibility: Work on machine vision system to monitor the detective 15-micron embryo.

Technologies: MATLAB, Python, ML, embedded C, Algorithms, GUI, PCB, Lens, Camera.

Project Name: Development of pick and place robot with ML and Object Detection. (Duration -6 Months)

Project Description: Development of robot with Microcontroller and sensor, Pi camera. **Role:** Teams leaders and Integration of Products.

Responsibility: Component selection, Prototype, hardware connection, Arduino testing, testing, and debugging, Algorithms

Technologies: MATLAB, python, machine Learning, Open CV, Arduino IDE.

Technical Skills and Certifications-

- 1. Embedded C, Python
- 2. CAN BUS ANALYZER TOOL
- 3. Microcontrollers 8,16 and 32 Bit, STM32cubeIDE
- 4. AUTOSAR, MCAL, White Box Testing
- 5. MATLAB- Simulink and MBD
- 6. EB TRESOS, dSPACE