**SREEKANTH THAKKILLAPATI**

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Career Outline

Looking for a challenging career, which demands the best of my professional ability in terms of, technical and analytical skills, and helps Organization and me in broadening and enhancing my current skill and knowledge.

Previous Experience

* Have **8Y**ears of experience as an Embedded Software Engineer. In this, last **1.5Y**ears of experience in CDD and ASW Development of Automotive Lighting with **Wipro Limited**, **4.5Y**ears of experience in AUTOSAR Application Software Development of Instrument Clusters with **Visteon Technical & Service Centre** and **2Y**ears of experience in Embedded Firmware Device Drivers Development with MICROBIT Embedded Solutions.

Education

* **B. Tech** (Electronics and Communication Engineering) with **aggregate 67.47%** in **2010-2014** from Visakha Institute of Technology and ScienceEngg. College, JNTUK University.
* **12th** with **aggregate 87.6%** from Sri Chaitanya Junior College in 2008-2010.
* **10th** with **aggregate 85.6%** from Sri Santhinikethan High School in 2008.

Technical Skills

* Embedded C
* Autosar: ASW, CDD, COM, DCM
* Model Based Design: MATLAB
* Low Level Device Drivers: I2C, EEPROM, ADC, PWM, RTC, GPIO, STT, Stepper Motor, SPI
* Version Control Tools: SVN, RTC, GIT, Clear Case, Source Tree
* Requirement Tools, DNG, DOORs
* Debuggers: ULINK2 JTAG, Trace32
* IDEs: Kiel micro vision, Multi
* Coding standards: Misra, Coverity
* Other Tools: Analyzer, CANalyzer, QAC, Visual studio, Rhapsody, Vector Case, CANoe, Oscilloscope, Audacity, DDT, Microsoft Visio, Clear Quest

Project Undertaken

**Project Profile #1:**

**Title** : **AL-Motion3 (Automotive Lighting)**

**Stepper driver and Application development**

Duration : April 2022 – Present

* Took up new roles as Technical Lead & Team Lead.
* Developed new Stepper driver for 7 variants (Porsche, VW & Audi) and updated SPI in Mcal.
* Developed Thermal & SysVolt applications and prepared their Architecture and SWCCs.
* Developed Calibration Parameters tool to generate the hex & arxml files.
* Fixed Diagnostic, EOL, Motor error speed issues in the SW.
* Raised HW issues to the client.
* Added new signals in CAN dbc and updated the Canoe configuration (CAPL and Panel scripts).
* Project specifications preparation like SWRS, MDRS and SSDs.
* Project delivery documents preparation like PB, SPL2, and Risk Assessments.
* Work status updates and progress reports for WSR creation as per schedule.
* Project Case Study and Retrospective documents preparation.
* Updated the requirements and supported to update the validation scripts
* Baseline creation in the branch.
* Tools:
  + Clear Case : Version Control Tool
  + Clear Quest : Ticket creating Tool
  + DOORs : Requirement Tool
  + Multi IDE : Debugging the Code
  + Analyzer : To take the Logs
  + Visual Studio : To develop the VB.net based tool
  + Microsoft Visio: To create the diagrams

**Project Profile #2:**

**Title** : **Nissan J32V Serena display Clusters**

Duration : May 2021 – March 2022

* Models Migration to new MATLAB versions and MIL coverage improvement.
* Implemented Diagnostic services like $22, $2E & $27.
* DDT – RTT, BTP scripts verification and create new test scripts using DDT Script player Editor.
* FOTA DIDs Implementation.
* Defects Analysis & fix.
* ETM Version screen implementation.
* Tools:
  + GIT Lab : Version Control Tool

**Project Profile #3:**

**Title** : **Nissan B13B Nismo, P33AB & P33C PHEV display Clusters**

Duration : July 2020 ‐ April 2021

* Implemented the features like Warnings & Chimes by using MATLAB.
* Worked on Chime integration.
* PDX files creation for partial reprogramming and testing.
* Hands on Peer Reviews for MATLAB models.
* Safety Activities & Fault injection testing.
* Debugging the issues and fixing them.
* Tools:
  + DDT 2000 : To flash the code & Diag services verification
  + Audacity : To create new wave files
  + Oscilloscope : To take the waveforms

**Project Profile #4:**

**Title** : **Nissan B13B Note & P33B PHEV display Clusters**

Duration : May 2019 ‐ June 2020

* Took up a new role as Embedded Senior Engineer.
* Worked on HMI Warnings & Settings implementation.
* Implemented the features like Telltales, Warnings, Settings and Chimes by MATLAB.
* Part Numbers Implementation.
* Hands‐On Release activity.
* Models Configuration implementation.
* PDX files creation for partial reprogramming and testing.
* Tools:
  + DDT 2000 : To flash the code

**Project Profile #5:**

**Title** : **MMC Pajero Sport 8‐inch Display cluster**

Duration : December 2017 ‐ April 2019

* Worked on AUTOSAR architecture.
* Implemented the features like Telltales, Warnings, Settings and Chimes.
* Worked on Diagnostics Services $22 & $2E in Meet SW.
* Creation of FTPs and testing on VdTek setup [HIL].
* Performed the NVM Endurance test & Fault injection test for WDT.
* Followed MISRA & Coverity coding standards while code implementation.
* Tools:
  + Canoe
  + MATLAB : To generate Auto code & Perform MIL testing
  + Vector Cast : To perform Unit testing
  + Rhapsody : Design the applications & move to DM
  + Visual studio : To implement the script to generate code automatically
  + DNG : Requirement tool

**Project Profile #6:**

**Title** : **Nissan J02C HEV & ECO Clusters**

Duration : September 2017 ‐November 2017

* Worked on Segment LCD display.
* Hands‐on Part Number configuration.
* Detailed Documents preparation.
* Tools:
  + QAC : To perform the Static analysis & fix them
  + RTC : Version Control tool of source code
  + Trace32 : Debugger

**Project Profile #7:**

**Title** : **Controlling Of Air Braking System through CAN Comm.**

Duration : April 2017 ‐ August 2017

* Worked on CAN Protocol.
* Developed STT device driver.
* Developed GPIO drivers.
* Worked on LPC1768 Micro‐controller.
* Tools: CANalyzer
* Debugging the issues and fixing them.

**Project Profile #8:**

**Title** : **Data Store in EEPROM using I2C comm.**

Duration : November 2016 ‐ March 2017

* Developed I2C and EEPROM driver.
* Debugging the issues and fixing them.
* Unit testing of the software module.
* Preparation of Documents.
* Tools: Analyzer

**Project Profile #9:**

**Title : IDBT Monitoring and Controlling System.**

Duration : March 2016 ‐ October 2016

* Worked on LPC1343 ﴾ Cortex‐M3 ﴿ Micro‐controller.
* Developed PWM & ADC device driver.
* Supported to develop the RTC ﴾ Real Time Clock ﴿.
* Debugging the issues and fixing them.
* Unit testing of the software module.
* Preparation of Documents.
* Tools:
  + Kiel micro vision-4
  + ULINK2 JTAG : To Debugging the issues and fixing them
  + Proteus Design Suite : To Perform the Simulation Testing
  + SVN tortoise : To manage versions of source code

Personal Details

Father’s Name : Lakshmi Narasimham. T

Gender : Male

Date of Birth : 7th July 1993

Known Languages : Telugu, English.

I do hereby declare that all the details furnished above are true and correct to the best of my knowledge and belief.

Date:

Place: SREEKANTH. T