



# KOKILAVAI SAI SIRICHANDRA

## Embedded Software Developer

3+ years of experience with automotive technologies | Model based software development | Model in Loop and Software in Loop testing | LIN and CAN bus communication | Project management.

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📍 Warangal, India.

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## EDUCATION

### Masters in Mechatronics Engineering VIT University, Vellore

09/2018 - 06/2020

7.96 CGPA

### B.Tech in Mechanical Engineering Kakatiya University, Warangal

09/2014 - 05/2018

70.42%

## WORK EXPERIENCE

### Senior Engineer ZF Group, India

10/2021 - Present

Hyderabad, India

Project : Autonomous Driving Open Platform Technology (ADOPT)

Achievements/Tasks

- Developed AUTOSAR compliant MATLAB Simulink/Targetlink/Stateflow models for Vehicle Control Unit (VCU) with ADAS features for autonomous trucks.
- MiL and SiL testing for models in TPT and Mtest.
- SiL testing of requirements in SoftCar.
- Automation of C code generation with Python.
- Automation of requirements exports using APIs in Python.
- Automatic of generation quality control sheet for project.
- Debugged and resolved bugs in software based on change requests of test team.
- Code generation using Targetlink.
- Experience in Agile Methodology, project management tool Codebeamer and version control using SmartGIT .

Customers : Daimler

### Engineer Valeo India Pvt Ltd.

10/2019 - 10/2021

Chennai, India

Achievements/Tasks

- Developed a closed loop special purpose machine to test Active Grill Shutters (AGS).
- Developed a passive actuation kinematics for Active Air Dam systems.
- Performed a total DVP (Design Validation Plan) on Active Grill Shutters.
- Programmed AGS smart actuators for various scenarios with LIN bus using Lipwosky tool.
- Worked on LIN communication system for automobiles.
- Worked on thermal cooling system in Electric vehicles.

Customers : Honda, Renault Nissan, Volvo.

## SKILLS



## ACADEMIC PROJECTS

### LANE DETECTION FOR ADAS

- Developed a system which processes the image from camera and detects lane and vehicle offset from lane and sends data to controller which controls steering.

### SELF BALANCING ROBOT

- Developed a two wheeled self-balancing robot using PID controller, which controls pitch movement by moving forward and backwards with two stepper motors.

### CVT IN BICYCLE

- Developed a continuously variable transmission (CVT) in a bicycle to improve the smoothness of gear shifting thus achieving an infinite gear ratio with CVT.

## CERTIFICATES

Certified by TIFAC for completing a course on design of Hybrid and Electric vehicles in MATLAB.

Carried out a mini project on Design and assembly of piston and connecting rod used in Diesel Locomotives in DIESEL LOCOSHED, KAZIPET.

## LANGUAGES

Telugu

Native or Bilingual Proficiency

English

Full Professional Proficiency

Hindi

Full Professional Proficiency

Tamil

Limited Working Proficiency

## INTERESTS

