**ASHWITHA KANTHALA**

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**CAREER OBJECTIVE:**

An aspiring Electrical Engineer, currently looking for an opportunity to kickstart my career in EV Design and Development Domain. Like to be a part of a team where there will be a scope of new learning every day with mutual growth in a reputed organization.

**EDUCATION:**

**Post Graduate program in Electric Vehicle Design and Development**-Skill-Lync. 2023

**B. Tech, EEE** Chaitanya Institute of Technology And Science | 87%||Warangal 2018-2022

**Intermediate, MPC**, Ekashila Group of Institutions|98.2% ||Hanamkonda 2016-2018

**SSC**, Z P High School,Meenajipet|85% ||Meenajipet 2015-2016

**TECHNICAL SKILLS:**

* **Technical Skills:** MATLAB, Simulink, State flow
* **Industry Knowledge:** Model-in-the-Loop (MIL) testing, Software-in-theLoop (SIL) testing, ADAS, Autonomous Vehicles, Model Based Development (MBD) using MATLAB/Simulink
* **Modelling & Simulation tools:** MATLAB, Simulink, Stateflow, Embedded Coder, Model Advisor,
* **Simulink Design Verifier. Technology:** Understanding of Automotive Electronics, Autonomous Vehicles, ADAS, AUTOSAR Architecture.
* **Programming**: M-Scripting

**ACADEMIC PROJECTS:**

**STRESS METER**

* Stress meter is a device which used to measure stress of the body depending upon the current flow through our body.
* Our body resistance level varies with stress of our body and mind**.**
* Designed circuit board according to the Circuit diagram
* The touch pads of the stress meter sense he voltage variations across the touchpads and convey the same to the circuit.
* The circuit isvery sensitive and detects even a minute voltage variation across the touch pads.

**POST GRADUATE PROGRAM IN ELECTRIC VEHICLE DESIGN AND DEVELOPMENT**

**ADAPTIVE CRUISE CONTROL**

• Designed and developed Adaptive cruise control Feature

• To reduce the stress on the driver by automatically controlling the vehicle speed & maintain the

distance from the preceding vehicles and provides a relaxation to the driver in traffic.

• The Model advisor check list performed (MAB), and code generation for the model is done.

**VEHICLE DIRECTION DETECTION**

• Designed and developed a Model Based Development Simulink model for Vehicle Direction

Detection

• Performed Model In Loop (MIL) and Software In Loop (SIL) tests to validate the developed model

and generated the code generation for the model is done.

**TRAFFIC JAM ASSISTANT FEATURE**

• Designed and developed Traffic jam Assistant feature

• Traffic Jam Assistant helps the driver arrive more relaxed at their destination.Even in dense traffic

or in traffic jams.

• The Model advisor check list performed (MAB), and code generation for the model is done.

**HIGHWAY ASSISTANT-LANE CHANGING ASSISTANT**

• Designed and developed Highway Assistant-Lane changing Assistant

• The highway Assistant supports the driver and takes over the longitudinal and lateral guidance of

the vechile in monotonous driving situations on highways.

•The Model advisor check list performed (MAB), and code generation for the model is done.

**Wiper control system and Vehicle speed calculation for ABS using Wheel Speed sensor**

• Designed and developed wiper control system and vechile speed calculation for ABS using Wheel speed sensor

• A wiper speed control system for an automotive wiper controls the operational speed of a wiper in accordance with rain conditions.

• Performed Model In Loop (MIL) and Software In Loop (SIL) tests to validate the developed model and generated the code.

**DEVELOPMENT OF TFT CLUSTER SPEEDOMETER SOFTWARE COMPONENT**

• Designed and developed development of TFT cluster speedometer software component

• Cluster instrument receives the signals from other ECU via CAN bus interface.It also receives

commands from the driver via steering wheel buttons.

• The Model advisor check list performed (MAB), and code generation for the model is done.

### Creation of user defined data type to implement the user interfaces for working with ‘Set’ (Mathematical Set theory) using Linked List

### Head and Tail: The linked list is accessed through the head node, which points to the first node in the list. The last node in the list points to NULL or nullptr, indicating the end of the list. This node is known as the tail node

### Intersection:- Traverse list1 and look for every element in list2, if the element is present in list2, then add the element to the result.

### Union:- Initialize the result list as NULL. Traverse list1 and add all of its elements to the result.

### Traverse list2. If an element of list2 is already present in the result then do not insert it to the result, otherwise insert

### LICENSE:

### Having MATLAB license.

### CERTIFICATION:

### Introduction to model-based development using MATLAB and Simulink, Skill- lync (2023)

### Introduction to Electric Vehicle using MATLAB and Simulink, Skill- lync (2023)

### MATLAB Basics, Skill- lync (2022)

### Introduction to Automotive Embedded systems and AUTOSAR

### Software verification and validation and system Testing for Model-Based Development.

### Embedded Programming Essentials.

### LANGUAGES

### • English||Full Professional Proficiency

### • Telugu||Native Proficiency

### • Hindi||Elementary Proficiency

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