GOKULA KRISHNAN S

SYSTEM ENGINEER

Feature ADAS Camera applications Function Owner and System Engineer with relevant Master's Degree in Automotive Electronics. Have a experience in designing the camera viewports for Surround View Systems, Requirements Engineering, Camera Intrinisics Calibration and have good knowledge on Computer Vision applications.

CONTACT	Email - krishnangokul098@gmail.com Mobile - +91 9894110993 Linked in - <u>www.linkedin.com/in/gokul-krishnan-b43b5a170</u> Address - Chennai, India.
EXPERIENCE	SYSTEM ENGINEER Valeo India Private Limited October 2021 - Present
	 Function Owner for Automotive Sceneviewing and Calibration, SAW(Camera Cleaning) and Camera Intrinsics Calibration. Designing the viewports for Surround View Camera systems and determining Extrinisics Calibration based on OEM requirements using ADTF tool. Reviewing the vehicle CAD data with OEMs to finalize the camera positions. Testing and Validating the HMI test reports provided by OEMs. Handling and solving the soiling related tickets by analyzing the
	CAN traces provided by the OEM. - Generating the camera lens data (Fisheye intrinsics, Offset and Aspect ratio) from the environmental tests.
	 Requirements Engineer Liaise with other metiers of the system to analyse, develop and allocate the system requirements(e.g. Mechanical, Software, System Architect, System Test and validation etc). Creating and maintain Baseline list and linkset paring for DOORS modules. Maintaining Attributes for good traceability between stakeholder and system module. Maintaining Data Dictionary modules for reuse of system requirements. Good knowledge on ISO 26262 and ASPICE methodology. Proficiency in requirement management tools - IBM DOORS, CoreALM, Confluence and Ascent JIRA.
SKILLS	MATLAB & SimuLink, LabVIEW, ADTF, Vector CANoe,

MATLAB & SimuLink, LabVIEW, ADTF, Vector CANoe COMSOL MultiPhysics, AutoCAD, GIMP, and Excel Macros

EDUCATION

M.TECH AUTOMOTIVE ELECTRONICS

Vellore Institute of Technology 2019 - 2021

B.E MECHANICAL ENGINEERING

Panimalar Engineering College 2015 - 2019

PROJECTS

DEGRADATION MODES FOR LITHIUM ION BATTERY USING ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY.

The impedance analysis of lithium ion battery is made using Electrochemical Impedance Spectroscopy. Various degradation modes like Loss of lithium-ion inventory (LLI) and Loss of active materials (LAM) are calculated. The measured impedance values are plotted using Nyquist plot and Equivalent circuit for the battery is modelled and the simulated model is compared with the real time impedance values from an EIS measurements.

PREDICTING LIFE OF LITHIUM ION BATTERIES USING NEURAL NETWORKS.

Battery modelling is done in Matlab Simulink. The required parameters from the battery like voltage, current, capacity with respect to time is acquired and graph is plotted. Then the acquired numerical data is preprocessed using Min-Max normalization and converting it into multidimensional arrays for feeding it into convolutional neural network model.

TRAFFIC LIGHT DETECTION USING COMMUNICATION BASED DETECTION.

Using two myRIO wifi (IEEE 802.11 b,g,n) modules, Traffic light board acts as a transmitter and vehicle acts as a receiver. The simulation is done in LabVIEW using the shared variables, the communication is established between transmitter and receiver VIs.

CERTIFICATIONS ELECTRIC VEHICLE TECHNOLOGY CERTIFICATION COURSE

Decibels Lab

REAL TIME EMBEDDED APPLICATION DEVELOPMENT USING LABVIEW

Vellore Institute of Technology

INTERESTS

ADAS Systems Battery Management Systems Machine Learning Computer Vision Applications Requirements Management