Anusha Nallasingu

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Work Experience

Designation May 2022 - present

Currently working as "System Engineer" in Tata Consultancy Services (General Motors Technical Center), Since May-2022.

Roles and Responsibilities

- Behavior/Physics based plant model development and validation for various automotive system in collaboration with product designers to develop accurate robust system models for SIL integration.
- Responsible for 1D system level simulation of electrical component and sub-system models for electrical and electronics components like fuses, cables, connectors, busbars and other battery electronics.

Projects

Plant Modeling Projects

HVAC AHDA (Air Handling Door Actuator): In the context of electric vehicles (EVs), HVAC AHDA's play a crucial role in managing the flow of air within the vehicle's HVAC system. These actuators are responsible for operating the air handling doors or flaps, which control the direction and volume of air that is distributed throughout the vehicle's cabin. This Behavioural model done in MATLB-Simulink.

Remote Function Receiver(RFR) : RFR is the Receiver of UHF signals coming from KeyFob and Tire Pressure Sensor and transmitting these signals to BCM over LIN. This Behavioural model done in MATLB-Simulink.

Simulation Projects

Fuse durability, cable sizing, and contactor sizing analysis using Saber RD tool.

Education

Sri Venkateswara University, Tirupati, AP (M.Tech) (CGPA: 8.66/10.0)
2021 - 2023
Master of Technology in Electrical and Electronics Engineering on Power Systems

KLM College of Engineering for Women, AP (B.Tech) (CGPA: 8.20/10.0)
2016 - 2020
Bacheor of Technology in Electrical and Electronics Engineering

St.Joseph's Junior College, Kadapa (Intermediate) MPC (GPA: 95.5/100.0)
2014 - 2016
Class 12 MPC in the Board of Intermediate Education Andhra Pradesh (BIEAP)

Z.P.H.School Chinnacheppali (SSC) (GPA: 9.20/10.0)
2013 - 2014
Class 10th in the Board of Secondary Education of Andhra Pradesh (BSEAP)

Publications

Nallasingu Anusha* and Dr.Ch.Chengaiah* (Jan. 2023). "Paper: PMSG Based Wind Turbine Control Using MPPT and Pitch Angle Control at Variable Speeds" link to Publication |

Nallasingu Anusha*,P Haritha, G Kavya and M Venkateshwari "Paper: Peak Current Limitation for Grid Side Inverter in PMSG-Based Wind Turbines During Different Grid Faults" link to Documents |

Skills

Technical Skills	MATLAB –Simulink, Saber RD, Ansys Q3D
Programming Skills	C, Python, HTML
Frameworks and Tools	GitHub, Latex, Microsoft Word, Excel, Google Docs and Notion
Hobbies	Watching movies like Sci-Fi films, Drawing
Languages	English, Telugu, Hindi