Vishal Manjunatha Malode

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Viehmarktplatz 1, 85055, Ingolstadt, Germany

About me: Cyber-Physical System Engineer who loves to be a part of a world-changing automotive electronics system, building relationships and expanding the reach of electronics.

WORK EXPERIENCE

08/2017 – 08/2019

AUTOMOTIVE ENGINEER – KPIT Engineering Limted

Validating Physical Communication Layer Modules of ECUs for DENSO International America.

· Test Procedure Development (Automation and Manual) for Cluster and Center Stack
· Automating the test framework using CAPL for CANoe
· Development of Vehicle Simulations Panels
· Vision-Based Hardware-In-Loop Testing (dSPACE)
· Defect Logging & Issue Analysis
· Troubleshooting HIL Systems
· Configuration Management (Subversion network and GIT hub)

https://www.kpit.com | Bangalore, India

EDUCATION AND TRAINING

01/10/2019 – CURRENT – Ingolstadt, Germany

MASTER OF ENGINEERING - MENG – Technische Hochschule Ingolstadt

Mathematical Modeling and Simulation, CAx-Techniques in Automotive Engineering, Powertrain, Automotive Electronics, Automotive control engineering, Power Supply, and Energy Distribution, Testing and Simulation Methods for Vehicle Safety Systems

Field(s) of study

- International Automotive Engineering

https://www.thi.de/en/

08/2017 – 10/2017 – Bangalore

AUTOMOTIVE TRAINEE ENGINEER – KPIT Technologies Limited

General
Professional Skills Development - Working with Assertiveness, Email Etiquette, Presentation Etiquette, Team-Work
Technical
Automotive Electronics, Embedded C, C Functional Unit Testing, CANoe Simulation: CAPL Scripting and Python

4.15/5

2013 – 2017 – Bangalore

BACHELOR OF ENGINEERING IN ELECTRONICS AND COMMUNICATION – Nitte Meenakshi Institute of Technology

General
English, Environmental Studies, Constitution of INDIA & Professional Ethics and Entrepreneurship Development Management & IPR
Technical
Analog and Mixed Mode Electronics, Embedded System, Internet of Things and Automotive Electronics

8.75/10 | http://www.nmit.ac.in

2011 – 2013 – Bangalore

DEPARTMENT OF PRE-UNIVERSITY EDUCATION IN SCIENCE – MES BR Subbarao PU College

Physics, Chemistry, Mathematics, Electronics, English and Hindi

501/600 | http://www.mesinstitutions.org.in

2010 – 2011 – Bangalore

SECONDARY SCHOOL EXAMINATION – Kendriya Vidyalaya Hebbal

Mathematics, Science, English, Hindi and Social Science

8/10 | https://www.kvhebbal.ac.in

LANGUAGE SKILLS

Mother tongue(s): KANNADA

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

2020 – 2020

Virtual Simulation of Future Mobility Solutions on Unity

https://e-scooterv.000webhostapp.com/
https://vishalmanjunathamalode.github.io/Unity-Prototype-Project/
Development of a Virtual Simulator for providing a stable and cost-effective system that can be used for testing and predicting system behavior on a commercial basis at a greater level of safety
- Migration from Blender 3D Model (.blend) to Filmbox Model (.fbx)
- Developing realistic VFX
- Construction of Road Markings and Boundaries
- Effect of Weather conditions to users

Technology & Hardware: Unity Real-Time Development Platform, Blender, C#, Visual Studio Community, GitTortoise, HTML Basics, GitHub, and Discord

2020 – 2020

Simulation: Thermal Design and Optimization of Automotive Low Beam Headlight

1. Modelling of LUXEON NEO 0.5mm2 LED in FLOEFD as per specification
2. Modelling and Study of cooling system implication on LED Junction Temperature

Technology & Hardware: FloEFD

2017 – 2017

Simulation: HYBRID VEHICLE Conceptual Model

https://www.tinkercad.com/things/hzHSz0LEocV
Designed and Simulated a conceptual model of a Hybrid Vehicle, based on Power Requirement
Technology & Hardware: Arduino UNO, Tilt Sensor, Power Source, and Relays

2017 – 2017

AUTO-SEC

Enhancement of Automobile Security and Safety System by enabling external communication
Technology & Hardware: Raspberry Pi, Python, ELM327, Basic HTML Design

2016 – 2016

Internet Of Light

IoT lighting system was implemented, enabled one device to talk with another device via Network, evolution from an intelligent lighting control system toward an IoT lighting system
Technology & Hardware: Node MCU, Arduino C, Relay, and Arduino IDE

2016 – 2016

Internet Of RC Car

Implemented a conceptual model of the Internet of Vehicle (RC Car). Established communication between Hardware and Internet
Technology & Hardware: Node MCU, Arduino C, Remote Control Car, and Arduino IDE

2015 – 2015

Automated Moisture Control in Plants

A water controller system in plants, watering the plants depending on the soils moisture
Technology & Hardware: Arduino UNO, Arduino C, DC Motor, Water Depending on Resistance: Moisture Sensor and Arduino IDE

2014 – 2014

Real Time Clock Based Street Lighting System

Implemented RTC based street lighting system; a relay circuit was designed to switch On/Off the streetlight based on Time.
Technology & Hardware: MSP430, Arduino C, RTC Module, AC-DC Converter and Energia IDE

CERTIFICATIONS

2020

MATLAB Onramp Certification

Basic concepts of Matlab Functionalities : Vectors and Matrix, Importing Data, Array Calculation, Plotting Data and Calling Function

2020

Hackerrank Python Basics

Successful completed Python Basic Assessment

2019

Go-Getter Awards

For being an Outstanding Performer, Contribution and Timely Execution, FORD Explorer Software Flashing and Validation

2019

DigiChamp Certification

Successful completed Digital Champ E-Training on Digital Technologies

2017

IOT Innovative Challenge NASSCOM

Implemented a real time monitoring system in Vehicles, reached Semi-Finals.

2017

MATLAB Onramp Certification

Basic concepts of Matlab Functionalities : Vectors and Matrix, Importing Data, Array Calculation, Plotting Data and Calling Function