

## Curriculum Vitae

### PERSONAL DATA

Date/Place of Birth: 11.02.1993 in Ranavav, India  
Nationality: Indian  
Marital Status: Married



### PROFESSIONAL EXPERIENCE & PROJECTS

#### 10.2021 – Present L & T Technology Services, Munich, Germany

##### Engineer as Data Manager for BMW (ES-540) ECUs

- Handling data for Gen 5 projects (CCUs, TEE, HVS/BMU) and Gen3-4 projects (LE125, LEB450) in Creta
- Integrating ECUs software in Creta via CI/CD Jenkins pipeline
- Mixing calibration data in Creta to build PDX for the software
- Documenting datasets and project component content processes
- Validation and delivery of software (PDX) for level releases
- Creation of variant comparisons for different SOP software deliveries

(Tools: Creta, CalibSDV, Jenkins, Esys, Jira, SVN, Confluence)

#### 08.2019 – 02.2020 Hofer Powertrain GmbH, Garching near Munich, Germany

##### Master Thesis: Synchronization of Electro-Generative and Mechanical brakes in motor Vehicles

- Developed a regenerative braking mechanism, an algorithm, and an electronic circuit for electric motorcycles
- Created a strategy for serial regenerative braking (SRBS) based on battery state of charge (SOC) and temperature
- Developed a Matlab/Simulink-based model for a regenerative braking system algorithm

(Tools: Matlab/Simulink, Arduino, Autodesk)

#### 02.2019 - 07.2019 Hofer Powertrain GmbH, Garching near Munich, Deutschland

##### Project: Feasibility study for building a 48V electric drive with lithium-ion battery cells for electric motorcycles

- Selection of suitable electric motors based on functionality and efficiency
- Comparison of various battery cell models (18650 and 21700) using criteria such as cell capacity, charge/discharge current, price, and weight
- Proposed specifications for a charger for lithium-ion batteries (Level 1 charging from household sockets)

01.2018 - 04.2018

## Rhine-Waal University of Applied Sciences, Kleve, Germany

**Analysis and Comparison of Caterpillar D7E and John Deere 850 J drivetrains with a focus on powertrain efficiency**

- Analysis of hydrostatic and serial hybrid powertrains traction
- Calculation of gear ratios and efficiencies of both powertrains

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## EDUCATION

09.2015 - 02.2020

## Rhine-Waal University of Applied Sciences, Kleve, Germany

**Master of Science (M.Sc.) in Mechanical Engineering**

**Focus:** Simulation of Power Transmission Systems, System Identification and Optimal Control and Software Development

08.2010 - 01.2015

## L. J. Institute of Engineering and Technology, Ahmedabad, India

**Bachelor of Engineering (B.E.) in Mechanical Engineering**

**Focus:** Control Systems, Fluid Mechanics and Vehicle Dynamics

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## FURTHER TRAINING

- **Deutsch Akademie, Munich**
  - ❖ **Grammar Course (A2 to B2) & Conversation Course**
- **Online Courses**
  - ❖ **Siemens S7-1200 PLC and Introduction to CAN (Controller Area Network)**

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## ADDITIONAL SKILLS AND KNOWLEDGE

### Software and Programming Languages

|                 |                       |               |                   |
|-----------------|-----------------------|---------------|-------------------|
| MS-Office       | (Very good knowledge) | Arduino       | (Good knowledge)  |
| Creta           | (Very good knowledge) | TwinCAT/PLC   | (Good knowledge)  |
| CalibSDV        | (Very good knowledge) | Siemens S7    | (Good knowledge)  |
| Jenkins         | (Good knowledge)      | LabVIEW       | (Good knowledge)  |
| Matlab/Simulink | (Good knowledge)      | SWE Generator | (Good knowledge)  |
| Python          | (Good knowledge)      | Esys          | (Good knowledge)  |
| C/C++           | (Good knowledge)      | Git           | (Basic knowledge) |

### Languages

|          |                   |
|----------|-------------------|
| German   | (Fluent)          |
| English  | (Business Fluent) |
| Gujarati | (Mother Tongue)   |
| Hindi    | (Business Fluent) |

Munich, 26.01.2026

*Joshi H. G.*