

# Curriculum Vitae

## PERSONAL DETAILS

First name Tejaswini  
Last name Ramesh  
Date and place of birth 01 April 1991, Bangalore, India  
Family status Single  
Address Jülicher Straße 16, Apt 1.17, 13357 Berlin, Germany  
Citizenship status Indian Citizen, Permanent Resident of Germany  
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## QUALIFICATION

10.2020 – Present **RWTH School of Business and Economics, Germany**  
MicroMasters – Innovation and Technology Management

10.2013 - 05.2017 **RWTH Aachen University, Germany**  
Degree: M.Sc. Electrical Engineering and Information Technology

08.2009 - 06.2013 **PES Institute of Technology, India**  
Degree: B.E. Electrical and Electronics Engineering

## PRACTICAL EXPERIENCE

01.2020 – 08.2020



**Alten GmbH, Friedrichshafen, Germany**

**Project Engineer**

- Developed the software of a post-processing tool and designed a user interface for the calculation, visualisation and analysis of the operating points and efficiency of electric machines and combustion engines
- Customer-oriented and regular releases of the new version. Evaluation and processing of change requests
- Developed predictive update software for design optimisation and testing of bearings and transmissions in cars. Analysed and optimised Monte Carlo simulation measurements in specific load configuration studies

10.2017 – 12.2019



**ZF Friedrichshafen AG (Extern), Friedrichshafen, Germany**

**Technology Consultant/Project Engineer**

- Developed functional models for the 'predictive maintenance' of electric drive diagnostic systems
- Model-based Software Engineering based on functional descriptions in MATLAB/Simulink
- Planning, Wireframing and Rapid Prototyping graphical user interface
- Developed a Digital Twin user interface and calculated load configuration measurements, damages and performed visualization and analysis of lifetime for various transmission components
- Evaluated results further supported diagnose function of the transmission electronic control unit (ECU)
- Testing and validation of GUI. Constant development based on iterative customer feedback
- Performed product manager responsibilities, Co-ordinated cross-functional teams

06.2016 – 07.2017



**Robert Bosch GmbH, Tamm, Germany**

**Intern and research student**

- Modelled powertrain components and developed a custom simulation environment in MATLAB Simscape and Simulink for the reverse simulation of an e-vehicle
- Achieved 50 % faster simulation time in comparison to earlier used tool such as GT-SUITE
- Programmed scripts for automated test data evaluation of a software integration test. Laboratory measurement data was read and scaled to the same time base
- Calculated and analysed the importance of operating points in relation to different driving cycles, from high-level vehicle models to low-level subsystem models

02.2016 –04.2016



**Institute for Power Electronics and Electrical Drives, Aachen, Germany**

**Research student for M5 BAT Project ( <http://m5bat.de/en-gb/Project/> )**

- Performed laboratory test and analysed data for cyclic and calendrical tests for aging of lead batteries
- Measured and evaluated acid density of battery cells with respect to temperature
- Verified the practical results with battery models

## **SKILLS**

<b>Languages</b>	English, German, Hindi, Kannada, Marathi
<b>Tools</b>	MATLAB/Simulink, Simscape, Targetlink, Canalyzer, ClearCase/GIT, DOORS, JIRA, ISO26262, Modelica Dymola
<b>Programing languages</b>	C, C++, Python
<b>Project management</b>	V model, Agile project management (SCRUM, Kanban, Design thinking)
<b>PC skills</b>	MS Office, Word, PowerPoint, Excel, Project
<b>Product Management</b>	Strategic Management, Creativity Management, Customer-Centric Innovation, Managing Disruptive Change, Entrepreneurship
<b>Personal skills</b>	Communication, Leadership, Team Player, Motivation, Analytical thinking, Work related travel
<b>Miscellaneous</b>	European Driving License (Passenger car)

## **AWARDS**

09.2019

ZF Excellence Award – ,Predictive maintenance for e-drive system by a transformative development process’

## **ENGAGEMENTS**

Voluntary

Indian Association Club, ‘Namaste Bodensee’, Germany

Rotaract Club of Bangalore Northwest, A Non-profit Organisation, India

Berlin, April 2021

Tejaswini Ramesh