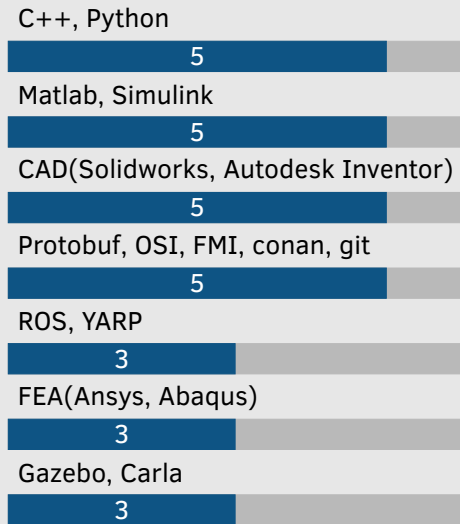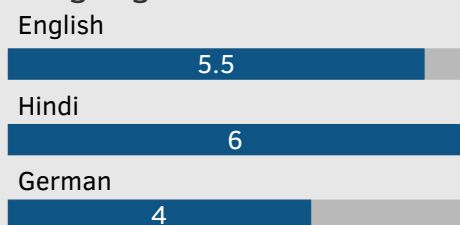# Vibhor Aggarwal

Software dev. and simulation engineer
Automated driving

- ℹ 24 February, 1996 (26# Years)
- ✉ Stuttgart, Germany
- ☎ (+49)17659896222
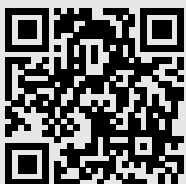- 🌐 vibhoraggarwal.github.io
- @ vibhorag24@gmail.com

Skills*

C++, Python

5

Matlab, Simulink

5

CAD(Solidworks, Autodesk Inventor)

5

Protobuf, OSI, FMI, conan, git

5

ROS, YARP

3

FEA(Ansys, Abaqus)

3

Gazebo, Carla

3

Languages*

English

5.5

Hindi

6

German

4

*Scale 1:Beginner to 6:Proficient

Projects' Photos & Videos

Summary

Automotive engineer experienced with robotic systems and ADAS.

Education

M.Sc, Automotive Engineering — 2021
RWTH Aachen, Germany

B.Tech, Major: Mechanical Engineering — 2017
         Minor: Applied Mathematics
Indian Institute of Technology Kanpur (IIT), India

Achievement and Awards

Best Under-Graduate project in Mechanical Engineering: IIT Kanpur	2017
Ranjan Kumar Memorial Award for best socially relevant project: IIT Kanpur	2017
Ranked 3rd in state and 914th nationally among 1.4 million students in JEE	2013
Gold Medal in National Mathematics Olympiad: AISMTA	2013

Experience

Software developer and Scrum master — 📍 Germany May'21-Present#
ETAS GmbH, Stuttgart

Simulation engineer for automated driving — 📍 Germany May'21-Oct'22
ETAS GmbH, Stuttgart

- Automated driving simulation for public funded project, SET Level

ADAS simulation engineer intern/master thesis — 📍 Germany Jun'20-May'21
ETAS GmbH, Stuttgart

- Logging and tracing OSI messages using in COSYM, a co-simulation software
- New standards in Verification & Validation setups for automotive applications

Student research assistant — 📍 Germany May'19-Mar'20
Institute of Automatic Control, RWTH Aachen

- Sensor fusion, DAQ and time synchronisation among IMU and GNSS sensors

Research Fellow for humanoid robotics — 📍 Italy Nov'17-Aug'18
Italian Institute of Technology, Genova

- Implemented low level torque control framework for Humanoid robot, iCub

Graduate Engineer Trainee — 📍 India July'17-Oct'17
Hero Motocorp Ltd, Haridwar

- Managed TPM for machine quality, process inspection and resource planning

Mechanical design engineer intern — 📍 India May'16-July'16
Grey Orange Robotics Pvt. Ltd, Gurugram

- Designed suspension system of a material handling Automated Guided Vehicle

Projects

Robotic Exoskeleton Arm — Aug'16-April'17
Guide: Dr. Sumit Basu, IIT Kanpur

- Provided improved mobility to people in old age and Cerebral Palsy patients

Off-road Vehicles — Dec'13-Jan'16
Guide: Dr. Avinash Kumar Agarwal, IIT Kanpur

- Created/optimised mathematical models for multi link suspension systems

Additional Information

- Led the Motorsports team at IIT Kanpur, with more than 25 members.
- Interested in Kung fu, Tango, Cycling, Running, Abstract expr., Philosophy

Last updated: January 16, 2023