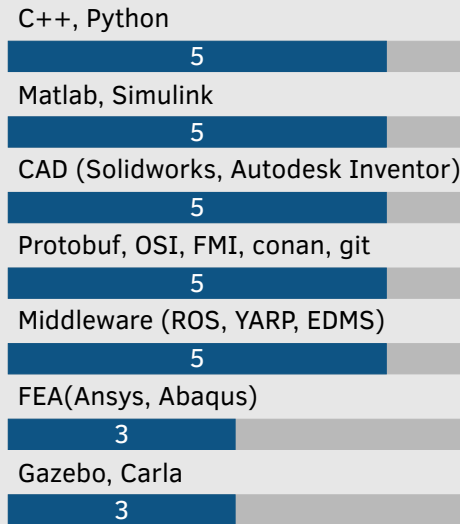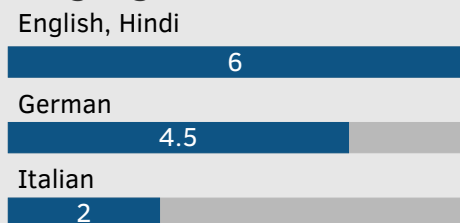# Vibhor Aggarwal

Software dev. and simulation engineer
Automated driving

- 24 February, 1996 (27$^{\#}$ 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

Middleware (ROS, YARP, EDMS)
5

FEA(Ansys, Abaqus)
3

Gazebo, Carla
3

Languages*

English, Hindi
6

German
4.5

Italian
2

*Scale 1:Beginner to 6:Proficient

Projects' Photos & Videos —

Summary

Automotive engineer experienced with robotic systems and ADAS.

Education

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

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

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

ETAS GmbH, Stuttgart — ♦ Germany
Software developer and Scrum master — May'21-Present$^{\#}$
- Developing applications for middleware system

Simulation engineer for automated driving — May'21-Oct'22
- Automated driving simulation for public funded project, SET Level

ADAS simulation engineer intern/master thesis — Jun'20-May'21
- New standards in Verification & Validation setups for automotive applications

Institute of Automatic Control, RWTH Aachen — ♦ Germany
Student research assistant — May'19-Mar'20
- Sensor fusion, DAQ and time synchronisation among IMU and GNSS sensors

Italian Institute of Technology, Genova — ♦ Italy
Research Fellow for humanoid robotics — Nov'17-Aug'18
- Implemented low level torque control framework for Humanoid robot, iCub

Hero Motocorp Ltd, Haridwar — ♦ India
Graduate Engineer Trainee — Jul'17-Oct'17
- Managed TPM for machine quality, process inspection and resource planning

Grey Orange Robotics Pvt. Ltd, Gurugram — ♦ India
Mechanical design engineer intern — May'16-Jul'16
- Designed suspension system of a material handling Automated Guided Vehicle

Projects

Robotic Exoskeleton Arm — Aug'16-Apr'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: October 7, 2023