

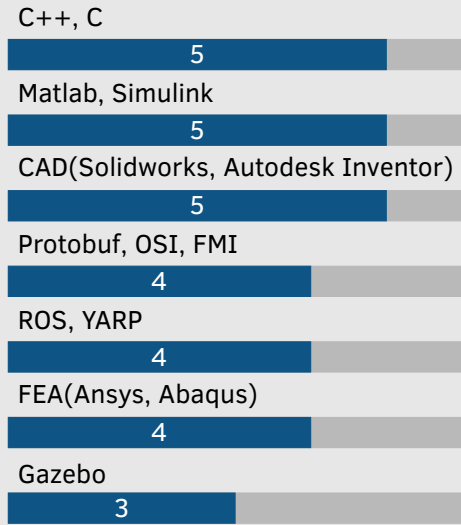


# Vibhor Aggarwal

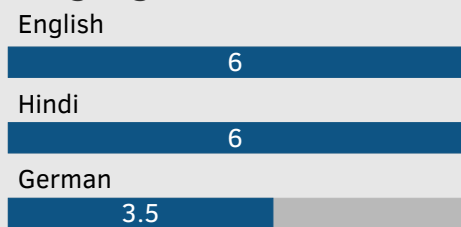
Master's Student, Automotive Engineering  
RWTH Aachen

- 24 February, 1996 (24 Years)
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Germany
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## Skills\*



## Languages\*



\*Scale 1:Beginner to 6:Proficient

Projects' Photos & Videos —



## Summary

Automotive engineer with experience in cutting edge research on robot and vehicle dynamics. Interested to work in the field of Advanced Driver Assistance Systems, Automated Driving, and Electro-mobility.

## Education

*M.Sc, Automotive Engineering* Sep 2018-Present#  
RWTH Aachen, Germany

*B.Tech, Major: Mechanical Engineering* July 2013-June 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

*ADAS simulation Engineer* C++ FMI Protobuf Germany June 2020-Present#  
ETAS GmbH, Stuttgart, Germany Bosch subsidiary for Embedded system support

- Logging OSI messages using FMI, in COSYM, a co-simulation software
- Generating FMU models, using C++ Protobuf library for ADAS SiL simulation

*Student research assistant* C++ Simulink Germany May 2019-Mar 2020  
Institute of Automatic Control, RWTH Aachen, Germany

- Created a C++ framework using inter-process-communication via UDP
- Data acquisition and time synchronisation among IMU and GNSS sensors

*Research Fellow,* C++ Gazebo Simulink YARP Italy Nov 2017-Aug 2018  
Guide: Dr. Daniele Pucci, DIC lab Research center for Human-Robot Collaboration  
Italian Institute of Technology, Genova, Italy

- Implemented low level torque control framework for Humanoid robot, iCub
- Identified transfer function between Voltage and iCub's joints' torque

*Graduate Engineer Trainee* MS Excel TPM India July 2017-Oct 2017  
Hero Motocorp Ltd, Haridwar, India World's largest two-wheeler company

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

*Mechanical Design Engineer* CAD FEA India May 2016-July 2016  
Grey Orange Robotics Pvt. Ltd, Gurugram, India Warehouse Automation firm

- Designed suspension system of a material handling Automated Guided Vehicle

## Projects

*Robotic Exoskeleton Arm* CAD FEA Matlab Aug 2016-April 2017  
Guide: Dr. Sumit Basu, IIT Kanpur, India Best Under graduate project at IIT Kanpur

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

*Off-road Vehicles* CAD FEA Matlab Dec 2013-Jan 2016  
Guide: Dr. Avinash Kumar Agarwal, IIT Kanpur For Event similar to FSAE & Baja SAE

- 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 Cycling, Kung fu, Salsa, Abstract expressionism, Philosophy,

# Last updated: September 28, 2020