



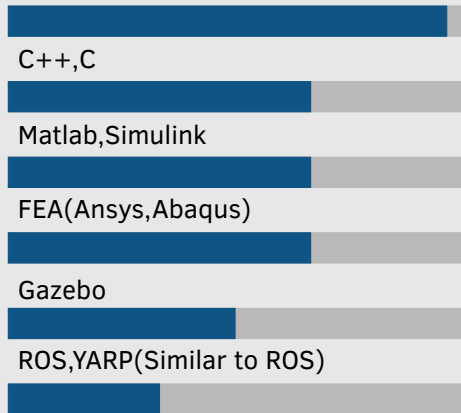
Vibhor Aggarwal

Master's Student, Automotive Engineering
RWTH Aachen

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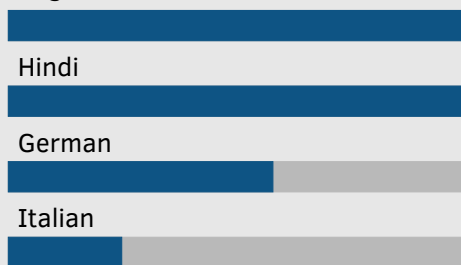
Skills* _____

CAD(Solidworks, Autodesk Inventor)



Languages* _____

English



*Scale 1:Beginner to 6:Proficient

Projects' Photos-videos _____



Summary

Automotive engineer with experience in cutting edge research on Human-robot collaboration and vehicle dynamics. Interested to work in the field of Automated driving or Modern vehicle systems, like Electronic stability control.

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 914 among 1.4 million students: Joint Entrance Exam 2013
Gold Medal in National Mathematics Olympiad: AISMTA 2013

Experience

Student research assistant May 2019-Present
Institute of Automatic Control, RWTH Aachen, Germany

- Sensor fusion for Navigation and path planning of an Unmanned Aerial Vehicle
- Creating a C++ framework using inter-process-communication via UDP

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

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

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

- Managed Total Productive Maintenance(TPM) for machine quality, in-process inspection and resource planning
- Produced machined parts by programming and setting up the CNC machine

Intern, Mechanical Design Engineer May 2016-July 2016
Grey Orange Robotics Pte. Ltd, Gurugram, India Warehouse Automation firm

- Designed suspension of a bi- directionally scalable material handling robot
- Optimized the assembly through trailing link in the Suspension system, and using DFMA techniques

Projects

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

- Exploited Pneumatic Air Muscles, based on Proportional pressure pneumatics
- Provided improved mobility to people in old age and Cerebral Palsy patients

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

- Created-optimised mathematical models for upto 5-DOF suspension systems

Other Information

Lead the Motorsports team at IIT Kanpur, with more than 25 members. Eventually being the Best-technical ready team in the competition