



# Varun Kotian

Exploring human interaction and dynamics of control of intelligent vehicles to improve safety, comfort and sustainability

## Software Skills

SolidWorks	IPG Carmaker
Autodesk Inventor	Optimum Lap
ANSYS	Matlab
SimScale	Python
HyperWorks	C++

## Personal Skills

Goal-oriented	Analytical
Hardworking	Flexible

## Interests

Reading	Travel
Piano	Video games
Sports	Chess

## Competitions

### Formula Student East

Zalaegerszeg, Hungary  
Aug 2018

### Formula Bharat

Coimbatore, India  
Jan 2018

### Formula Student Germany

Hockenheim, Germany  
Sep 2017

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[linkedin.com/in/varunkotian](https://www.linkedin.com/in/varunkotian)

## Education

- 2019 - Present **MSc Mechanical Engineering**  
Delft University Of Technology  
Track: Vehicle Engineering  
Specialization: Dynamics and Control
- 2014 - 2018 **BTech Mechanical Engineering**  
K. J. Somaiya College of Engineering, Mumbai  
CGPA: 8.46

## Experience

- Dec 19 - Aug 20 **Nova Electric Racing**  
**Vehicle Dynamics Engineer**  
Development of Laptime Simulaion tool and Battery Managemnet System
- Aug 16 - Aug 18 **Orion Racing India**  
**Aerodynamics Head**  
Aug 17 - Aug 18 **Assistant Technical Coordinator**  
Dec 15 - Jul 16 **Engineer**  
Design, manufacturing and testing of aerodynamic package of the FSAE Race Car
- Jun 17 - Jul 17 **Godrej & Boyce Mfg. Co. Ltd., Mumbai**  
**Trainee**  
Industrial Training and project on "Tool Management"
- Sep 16 - Nov 16 **Dr. Andrew Hunter**  
**Intern**  
Planning and analysis of the Fire and Safety system

## Projects

- Sep 20 - Present **Amplitude Dynamics of Motion Sickness**  
**MSc Graduation Thesis**  
Investigating the effects of varying amplitude of accelerations on the time course of motion sickness
- Jul 17 - Jun 18 **Design, Development and Validation of Aerodynamic Package of a FSAE Race Car**  
**BTech Graduation Thesis**  
Conducting research and fabrication of carbon fiber aerodynamics devices

## Extra-curriculars

- 2018 **Yaw Moment Diagram**  
**Paper presentation**  
2nd place- Maharashtra State Level
- Vehicle Dynamics & Performance**  
**Seminars**  
2018 OptimumG Data Driven Performance Engineering  
2017 OptimumG Applied Vehicle Dynamics