

# DAVIDE DE RUSSIS



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## LANGUAGES

ITALIAN - MOTHER TONGUE



ENGLISH - FLUENT



## COMPUTER SKILLS

- **MICROSOFT OFFICE:** Excel, Word, Powerpoint
- **COMPUTATIONAL MODELLING:** Matlab/Simulink, Python
- **LAPTIME SIMULATION:** Matlab quasi-static simulator, Chassis Sim, AVL VSM
- **VIRTUAL RACING SIMULATION:** iRacing, Assetto Corsa Competizione, Assetto Corsa, R-Factor 2
- **DATA ACQUISITION & ANALYSIS:** MoTeC i2 Pro, Cosworth PI, Aim, Bosch WinDarab, Wintax, vTelemetry Pro
- **MULTI-BODY DYNAMICS:** ADAMS View, ADAMS CAR
- **CAD & DESIGN:** CATIA V5, Solidworks, Siemens NX (with TeamCenter), Autodesk Inventor (with Vault), Rhinoceros
- **COMPUTATIONAL FLUID DYNAMICS:** STAR CCM+
- **MULTI-PHYSICS SIMULATION:** LS-Dyna, LS-Prepost
- **3D PRINTING:** PreForm

A highly self-motivated and young engineer with trackside experience in race and performance engineering of Touring and GT cars. Strong motivation to drive performance and to develop as an engineer in the field of race engineering and vehicle performance.

## EDUCATION

- 09/2018 - 09/2019** **MSc MOTORSPORT ENGINEERING - DISTINCTION**  
Oxford Brookes University - Oxford, UK
- 10/2011 - 10/2017** **BSc AUTOMOTIVE ENGINEERING - 2:1**  
Politecnico di Torino - Turin, Italy
- 10/2016 - 11/2016** **RACE ENGINEERING PROFESSIONAL COURSE**  
Hexathron Racing Systems - Milan, Italy
- 09/2006 - 07/2011** **SCIENTIFIC HIGH SCHOOL - 90/100**  
Scientific High School L.B. Alberti - Valenza, Italy

## TRACKSIDE ENGINEERING WORK EXPERIENCE

- 10/2021 - PRESENT** **DIRECTOR & RACE ENGINEER**  
Simutec Motorsport Simulation Ltd. - Milton Keynes, UK  
Driver development and engineering using a professional simulator.
- 05/2020 - PRESENT** **RACE ENGINEER**  
A Cup of Racing - UK, Italy, Sweden, Germany & USA  
**05/2021 - Present:** GT4 Scandinavia 2021 Race & Performance Engineer for BMW M4 GT4 at Lestrup Racing Team.  
**05/2020 - Present:** Sim Racing Race Engineering for TCR, GT3, GTE, F3, LMP2 & Nascar cars.  
**11/2020 - 08/2021:** Head of Sim Racing Engineering at Eagles eSport Team/FaraSimTech Racing Team.  
**09/2020 - 11/2020:** ADAC GT4 Germany 2020 Race Engineer for Porsche Cayman GT4 #26.
- 03/2020 - 04/2020** **JUNIOR RACE ENGINEER - BENTLEY TEAM**  
M-Sport Ltd. - Dovenby, Cockermonth, UK  
Learning and improving the tyre management procedure with the M-Sport Bentley GT3 race team. Logging and investigating tyre performance to improve overall performance. Job lost because of the Covid-19 pandemic.
- 11/2016 - 11/2017** **RACE & PERFORMANCE ENGINEER**  
Hexathron Racing Systems - Italy, China, UK  
Optimising and analysing race cars setup to ensure the best performance possible during Lotus Cup Italy, CTCC and BTCC 2017, through data analysis, virtual modelling, vehicle dynamics simulations, and on-track tests. Trackside experience for race & performance engineering responsibilities and workshop support.

## CERTIFICATIONS

- RACE ENGINEERING DIPLOMA
- IELTS 6.5 (AUGUST 2018):  
Listening 6.0, Reading 8.5, Writing 5.5, Speaking 6.5
- CERTIFIED MATLAB ASSOCIATE:  
Preparation course followed
- JUNIOR KARTING DRIVER DIPLOMA

## ACHIEVEMENTS

- 1ST PLACE OVERALL 2020 ADAC GT4 GERMANY TEAM CHAMPIONSHIP
- 2ND PLACE OVERALL 2020 ADAC GT4 GERMANY TROPHY CHAMPIONSHIP
- BEST UK FORMULA STUDENT TEAM 2019
- AUTOSPORT WILLIAMS ENGINEER OF THE FUTURE AWARD 2019 SHORTLISTED CANDIDATE
- SCUDERIA FERRARI INTERVIEWS FOR VEHICLE DYNAMICS JUNIOR POSITION 2019
- SCUDERIA TORO ROSSO FORMULA FUTURE 2019 VEHICLE PERFORMANCE FINALIST

## INTERESTS

ENGINEERING

MOTORSPORT

AUTOMOTIVE

TECHNOLOGY

KARTING

SIMULATION

MOTORCYCLES

CYCLING

WORLD TRAVELLING

READING

## OTHER ENGINEERING WORK EXPERIENCES

09/2018 - 10/2019

### VEHICLE DYNAMICS ENGINEER

Oxford Brookes Racing - Oxford, UK

Modelling and optimising both combustion and electric Formula Student single-seaters into different laptime simulators (Matlab quasi-static, transient) to make decision for both car design and optimisation phases. Using OBR 4 post-rig as a tool to test previous car dynamic.

12/2017 - 03/2018

### AUTOMOTIVE ENGINEERING INTERN

Be Design - Volpiano, Italy

Designing a one-off car signed by Giugiaro to present at 2018 International Geneva Motorshow. Analysing critical sections to ensure the vehicle feasibility and engineering different car kinematic components with CATIA V5.

06/2016 - 10/2016

### DATA ENGINEER

Bernini Rally - Tortona, Italy

Acquiring and analysing data for the Ford Fiesta R5 during national Rally events. Vehicle performance & reliability analysis.

## PROJECTS

02/2019 - 09/2019

### MSc DISSERTATION

Oxford Brookes University - Oxford, UK

Vehicle dynamics analysis to optimise a Formula Student car setup. Tyre modelling using Pacejka MF5.2 (Matlab). Comparing derivatives analysis and ADAMS quad bike analysis to understand the cornering behaviour of 2018 and 2019 single-seaters. Modelling and optimising through laptime simulations the 2019 car to improve the vehicle performance for the FSUK 2019 autocross. Validating virtual models with real tests and results.

09/2018 - 05/2019

### MOTORSPORT ENGINEERING COURSEWORKS

Oxford Brookes University - Oxford, UK

- Advanced Vehicle Dynamics portfolio with 5 important vehicle dynamics topics analysis for a baseline race car.
- Advanced Vehicle Aerodynamics coursework with a performance comparison between Formula Student and Formula 1 front wing, using CFD software (STAR CCM+).
- Laptime Simulation & Race Engineering coursework with a design and setup optimisation of a 2020 LMP1 vehicle for the 24h of Le Mans, using AVL VSM.

01/2017 - 09/2017

### BSc FINAL PROJECT

Politecnico di Torino - Turin, Italy

Performance evaluation of diffusers in Formula One. Analysing different 2D diffuser models performance, using CFD software (STAR CCM+).