Nicolò Gavagni

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PROFILE

As a dedicated Master's student in Vehicle Engineering at the Enzo Ferrari department and an Industry Process Consultant at Dassault Systèmes, I possess a profound passion for the automotive-motorsport sector and the broader tech industry. My approach to work is characterized by an ability to independently manage projects and ensuring adherence to deadlines. I thrive in environments that challenge my technical expertise and innovative thinking, driven by a natural curiosity that seeks new knowledge and perspectives.

WORK EXPERIENCES

Industry Process Consultant | Dassault Systemes — Milano | Oct 2023 – In Progress

- Thesis development: study of a project based on a subway carbody parameterized in design, followed by a static and dynamic (crash) analysis phase through a DOE. Finally analysis of the manufacturing process and product cost.
- Development of an automotive component for a well-known company using the 'MODSIM' (simulation driving design) approach resulting in a **30% reduction in product development time**.

TACC | Training for Automotive Companies Creation — Modena | Nov 2022 – February 2023

- Innovative Enterpreneurship training programme specific to the automotive industry. The project includes lessons with the involvement of managers, participation in national and international fairs, workshop, prototyping, design and validation sessions for their start-up project. https://tacc.unimore.it/

EDUCATION

Master's degree, Vehicle Engineering — Modena | Sep 2021 – In progress

Università degli studi di Modena e Reggio Emilia

Relevant Courses: Aerodynamics; PowerUnit – ICE; Mechanic / Dynamics of the vehicle; Automotive thermal control; Frame design; Design Methods

Bachelor degree, Mechanical Engineering — Firenze | Sep 2017 – Feb 2021

Università degli studi di Firenze

Relevant Courses: SolidWorks; Fluid dynamics; Mechanical drawing; Mechanical design principles; Measurements and tests; Science of materials

EXTRACURRICULA ACTIVITIES

Formula Student | Modena Racing Team Driverless — Modena | Nov 2021 – Aug 2022

- Dynamic and Suspensions Division
  - **4 sec (3.5%) lap improvement** working on the set-up pf the car's dynamic and provide data to the IT division to be implemented in the code for autonomous driving.
- Car Design Division
  - **20% reduction in space occupied** by optimising the layout of electronic components and cables inside the car.
  - **Reduction of 4°C** in the operating temperature of the control unit through the design and realization of a rack and better redirection of the cooling system flow.

SKILLS

Languages: Italiano: Mother tongue , **English:** Professional proficiency
IT: Catia V6 – 3DExperience; SolidWorks; Abaqus; Marc Mentat; Maxima; Excel; C++; Phyton
Personal: Teamwork; Creativity and Innovation; Attention to Detail; Lifelong Learning