Victor Gaultier

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Education

Doctoral Candidate in Mechanical Engineering — **Sept. 2021 –**
ETH Zürich - Swiss Federal Institute of Technology — *Zürich, Switzerland*

Master of Science in Mechanical Engineering, GPA: 5.29/6 — **Sept. 2019 – Sept. 2021**
ETH Zürich - Swiss Federal Institute of Technology — *Zürich, Switzerland*

Core courses: Manufacturing of Polymer Composites, Mechanics of Composite Materials, Metal Additive Manufacturing - Mechanical Integrity and Numerical Analysis, Aircraft Structures, Adaptive Materials for Structural Applications, Orthopaedic Biomechanics

Bachelor of Science in Mechanical Engineering, GPA: 4.95/6 — **Sept. 2016 – Aug. 2019**
EPFL - Swiss Federal Institute of Technology — *Lausanne, Switzerland*

Core courses: Mechanical Design Principles, Solid Mechanics, Material Sciences

Baccalauréat, GPA: 16.02/20 — **Sept. 2013 – Aug. 2016**
Lycée Ste Famille, ESCR — *La Roche-sur-Foron, France*

Scientific option with mathematical speciality

Work Experience

CMAS Lab — **Sept. 2021 – Feb. 2024**
Focus project supervisor — *Zürich, Switzerland*
- Supervision of the HCR3D Focusproject, aiming to develop a 3D printing machine for hybrid bi-component fibres.

Alpina Burkard Bovensiepen GmbH & Co. KG — **Sept. 2020 – Feb. 2021**
Vehicle Dynamics Mechanical Engineer Intern — *Buchloe, Germany*
- Improved ALPINA B7 and B4 chassis's stiffness and suspension kinematics to improve the cornering stability.
- Designed ALPINA B4 lightweight aluminium rims.

Kart Republic — **April 2018**
Mechanic and on-track engineer — *Valencia, Spain*
- Prepared go-karts and supervised on-track testing at the European Winter Cup Go-Kart championship.

EPFL - Swiss Federal Institute of Technology — **Sept. 2017 – July 2019**
Teaching Assistant — *Lausanne, Switzerland*
- Prepared and led exercise sessions in General Chemistry, Material Sciences, Structural Mechanics, Continuum Mechanics.

Engineering Projects

CMAS Lab — **Feb. 2021 – Ongoing**
- Project name: "Design and Fabrication of a Periodic Cellular Sandwich Core Made via Local Welding and Reshaping of Thin-Ply Thermoplastic Composites"
- Studied the potential of welding and reshaping thermoplastic-based composites

Akademischer Motorsportverein Zürich (AMZ) Racing — **Sept. 2019 – Aug. 2020**
- Designed and manufactured carbon rims and wheel hubs for a Formula Student race car: reduced rim's weight by 15% and wheel hub's weigh by 23% compared to previous versions.
- Responsible to present the chassis design at the FS Switzerland event.
- Track record of the car : 1st place FS East 2021, 2nd place FS Austria 2021

CMAS Lab — **Feb. 2020 – Sept. 2020**
- Project name: "Manufacturing of one-piece one-cure carbon rims through the combination of CFRP and AM"
- Developed a novel manufacturing method to reduce the manufacturing cost and complexity of carbon rims.

"Want to stay healthy" project — **Jan. 2020 – April 2020**
- Developed an IOS application to track macro-nutrients eaten in a day.

EPFL Racing Team — **Sept. 2018 – Sept. 2019**
- Designed and assembled the steering system for a Formula Student race car, as part of the undergraduate final project

Skills

Softwares: Abaqus; Catia V5; NX 12; Solidworks ; ANSYS; MATLAB/Simulink; COMSOL, Repetier HOST.
Languages: French (Native), English (Proficient), German (Proficient).
Sports: Powerlifting, Tennis.
Sports achievements: Current Swiss national record holder and 2021 champion in powerlifting, -59 kg category: Squat, Bench-press, Deadlift and overall.
Engineering skills: Composite materials manufacturing, Composite design, Lightweight design, Teamwork, Vehicle Dynamics optimisation, Finite Element Analysis.