

David Battistelli

Mobile: +39 389 2092376 | Email: david.battistelli@hotmail.it

EDUCATION

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|---------------------------|--|--|
| Nov. 2024
to Present | Tuscia University
<i>MSc in Mechanical Engineering</i> | Viterbo, Italy
<i>GPA: 28/30</i> |
| | <ul style="list-style-type: none">• Subjects include Advanced Fluid Machinery and Energy systems, Sensors and data acquisition system, Unconventional Technologies for product development, Nuclear Fusion• Elected student representative on the Engineering Faculty Council at Tuscia University, currently maintaining the position awaiting new elections• Master thesis in collaboration with EPFL's Swiss Plasma Center, developing a transferable framework for integrating the MEQ Suite with the TRUST fusion reactor and scalable to next-generation plasma devices. | |
| Sep. 2021
to Nov. 2024 | Tuscia University
<i>BSc in Industrial Engineering</i> | Viterbo, Italy
<i>Final grade: 101/110</i> |
| | <ul style="list-style-type: none">• Contributed to R&D and chassis development for the university's Formula SAE team, project received Tesla sponsorship for lithium-ion battery integration.• Selected among the top 5% of candidates for a Porsche AG engineering project and factory visit in Stuttgart, based on academic performance and project submissions.• Bachelor's thesis: "Analysis and Optimization of the Position of Stabilising Plates in the TRUST Reactor Experiment," using MATLAB and MAXFEA for simulation and design analysis. | |

WORK EXPERIENCE

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| Aug. 2025
to Present | Swiss Plasma Center – EPFL
<i>Researcher & Project Intern</i> | Lausanne, Switzerland |
| | <ul style="list-style-type: none">• Worked on the integration of TRUST tokamak numerical models with MEQ (EPFL's proprietary suite for plasma equilibrium analysis), creating a framework to ensure compatibility and adaptability to a wide range of tokamaks for equilibrium analysis.• Contributed to the design of optimal configurations for magnetic coils and diagnostics to improve plasma profile reconstruction in TRUST. | |
| Aug. 2023
to Oct. 2023 | MG Sustainable Engineering AB
<i>Project Management Intern</i> | Uppsala, Sweden |
| | <ul style="list-style-type: none">• Worked to the PV+ Solarus project by developing simulation code in Engineering Equations Solvers and MATLAB to analyse the heat exchange in PVT panels; drafted final report recommending +3 material improvements and future design iterations• Collaborated with Gävle University's to model and simulate the electrical performance of PVT systems, leveraged energy laboratory equipment for detailed experimental analysis• Assisted in designing the electrical schematics of PVT panels using AutoCAD, producing 2D models to support electrical system integration of PVT panels | |

ADDITIONAL INFORMATION

- Accredited as lifeguard by National pool lifeguard qualification in 2018 and volunteered at Red Cross during pandemic emergency, providing +100kg of food supplies
- Selected in "Mentors4U" mentoring program among top 25% of applicants
- Passionate about climate change, technology and sailing
- Languages: Italian (Native), English (Fluent), Spanish and French (Intermediate)
- IT: MS Office (Advanced), Python (Intermediate), MATLAB (Intermediate), Engineering Equation Solvers (Advanced), Ansys (Basic), SolidWorks (Basic), Maxfea (Basic)