



ANDREA SALVI

MSc in Mechanical Engineering - Mechanical Design

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TECHNICAL SKILLS

- **CAD**: Fusion 360, Solid Edge, AutoCAD
- **FEM**: ANSYS, Altair HyperWorks
- **Wind Turbines (BEM)**: QBlade
- **Additive Manufacturing**: 3D printing, slicing(FDM)
- **Programming**: Python, C, Html, CSS, JS

LINGUE

- **Italian**: native
- **English**: C1

Profile

Master's degree student in Mechanical Engineering (Mechanical Design track) at Sapienza University of Rome, currently completing the program. Erasmus experience at the Norwegian University of Science and Technology (NTNU) and enrolled in the Minor in Smart Infrastructures.

Experience in CAD modeling, FEM analysis and experimental validation through academic projects. Currently working on a thesis on the application of Large Language Models in mechanical design, carried out in collaboration between Sapienza University of Rome and NTNU.

EDUCATION

Master's Degree in Mechanical Engineering – Mechanical Design (ongoing)

Sapienza University of Rome - Rome, Italy

Minor Degree in Smart Infrastructure

Sapienza University of Rome - Rome, Italy

Erasmus Semester – Norwegian University of Science and Technology (Fall 2025)

NTNU - Trondheim, Norway

Bachelor's Degree in Mechanical Engineering (2024)

Sapienza University of Rome - Rome, Italy

RELEVANT PROJECTS

- **Mechanical / Mechatronic Assembly**: definition of requirements, concept design, parametric/surface CAD modeling, preliminary sizing and FEM verification with topological optimization of structural components.
- **Small-scale Wind Turbine**: design of a horizontal-axis wind turbine with airfoil selection and blade optimization using BEM and QBlade simulations. Sizing and matching of a three-phase permanent magnet generator; prototyping (CAD/3D printing) and experimental validation in a wind tunnel with comparison between model predictions and measurements.
- **Gear Transmission Manufacturing Process**: material selection and preliminary sizing, definition of manufacturing processes for the main components (frame casting, shaft turning/milling operations, gear forming), including tolerances/allowances and cost estimation.