

lacopo Catalani

DATE OF BIRTH: 18/08/1991

Contact informations:



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PROFILE

- Current occupation:
 - Industrial Engineering PhD student at Università degli Studi di Firenze.
- **Experienced in:**
 - Advanced CAD modeling;
 - Thermo-structural numerical analysis of composite structures;
 - Computational Fluid Dynamics (CFD) and thermostructural numerical analysis of turbochargers;
 - MATLAB/Simulink 0D/1D heat-transfer modeling;
 - Hardware-in-the-loop (HIL) simulation techniques.

SKILLS

- Proficient in spoken and written English.
- ☐ Teamwork, Adaptability, Problem solving, Thoroughness and attention to detail.
- Windows environment, Microsoft Office, CAD modeling (SolidWorks, ANSYS DesignModeler), ANSYS Mechanical simulation framework, MATLAB/Simulink, NI VeriStand.

WORK EXPERIENCE

- PhD candidate, Industrial Engineering, Università degli Studi di Firenze
 - November 2019 Now
- Assistant Research Engineer, PIN Polo Universitario Città di Prato
 - June 2019 October 2019

EDUCATION

- Master of Science, Energy Engineering (110/110 with honors)
 - Università degli Studi di Firenze
- Bachelor's Degree, Mechanical Engineering (95/110)
 - Università degli Studi di Firenze
- High-School Diploma, Scientific Studies (90/100)
 - Liceo Scientifico "F. Redi" Arezzo

PUBLICATIONS

- Assessment of a Computationally Efficient Method for Industrial Simulations of Transient Heat Transfer During Autoclave Curing (https://doi.org/10.1115/1.4052119)
 - ASME Journal of Pressure Vessel Technology
- Aerodynamic Optimization of a Turbocharger Unit Based on the Overall Efficiency Enhancement of an Internal Combustion Engine for Stationary Power Production (https://doi.org/10.1115/GT2021-58843)
 - ASME Turbo Expo 2021