NICOLAS ROMANELLA

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EDUCATION

University of Modena and Reggio Emilia   Modena, Italy
Master of Science in Automotive Engineering   Graduation: Dec 2026
Equivalent GPA: 3.97/4.00

Relevant coursework (full grade 30/30): Vehicle Dynamics; Vehicle Mechanics; Vehicle Aerodynamics; Vehicle Chassis Design; Automatic Controls; Numerical Methods in Engineering.

University of Illinois at Urbana-Champaign   Champaign, IL
Summer School in Energy Systems   Aug 2023 – Sep 2023
Grade: 4.00/4.00

University of Pisa   Pisa, Italy
Bachelor of Science in Mechanical Engineering   Sep 2018 – Dec 2023
Equivalent GPA: 3.75/4.00

EXPERIENCE

Impulse Modena Racing   Modena, Italy
Head of Simulation & Modeling   Nov 2024 – Dec 2025
- Promoted to lead a 5-member team in simulation and data analysis. Trained members on VI-Grade tools and MATLAB workflows. Collaborated with Electronics Division to integrate Simulink models.

Vehicle Dynamics Engineer   Nov 2023 – Oct 2024
- Built and validated motorcycle dynamic models in VI-Grade. Developed MATLAB and Excel tools for telemetry and altimetry analysis. Produced reports to support design decisions and track testing.

Nuova Coperbit SRLS   Benevento, Italy
Business Support Assistant   Nov 2022 – Dec 2025
- Prepared estimates, invoices, and investment projections for financial planning. Built tax and cash-flow forecasts to support investment decisions. Managed sale and shipping of unused equipment.

University of Pisa   Pisa, Italy
Student Representative   Dec 2019 – Sep 2022
- Represented 150 students in university residence. Led meetings to improve services and coordinate relocation during residence closure. Organized events to foster community and mutual respect.

PROJECTS

- Modeling and Simulation of a MotoGP Holeshot Device Hydraulic System
- Study and Optimization of Energy Consumption for a Formula SAE Car
- CAD Redesign of a 2-Stroke Engine for Model Aircraft
- Manufacturing Process Design of a Wankel Engine

SKILLS

- **Languages:** Italian (native), English (Cambridge B2 Certificate)
- **Programming & Scripting:** C/C++, HTML, LaTeX, Python
- **Simulation & Analysis:** MATLAB, Simulink, VI-Grade, Maxima
- **CAD & FEM:** SolidWorks, CATIA V5/V6, NX, Marc Mentat, MSC Adams

ELIGIBLE FOR J-1 INTERN VISA: **NO COMPANY SPONSORSHIP REQUIRED**