

Nicholas Gioia



Contacts

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 Bologna, Italia

Languages

Italiano: lingua madre

Inglese: B-2

Skills

Teamwork & Collaboration

C Programming

Microsoft Office Suite

Java Programming

Python Programming

CAD Software (AutoCAD, Creo, Fusion360)

Linux Systems

Hobbies

Football, Tennis, Formula 1,
3D Printing

Profile

I am a Master's student in Automation Engineering with a strong analytical mindset and a proven track record of meeting tight deadlines. I am deeply passionate about robotics, automotive systems, and additive manufacturing (3D printing). Adept at collaborative problem-solving and technical integration, with a solid academic foundation in Automatic Control, Mechanics, and Computer Science.

Education

Present

2023

MSc in Automation Engineering

Alma Mater Studiorum - University of Bologna

Focus:

- System theory and advanced control
- Image processing and computer vision
- Industrial robotics
- Deep learning
- Autonomous and mobile robotics
- Automation software and design patterns

2023

2020

BSc in Automation Engineering

Alma Mater Studiorum - University of Bologna

Focus:

- Automatic Control
- Electronics for Automation
- Automatic Machines
- Mechanics
- Computer Science

2020

2015

Diploma di Istruzione Superiore Scientifico

Liceo Scientifico Rita Levi Montalcini di Rotonda

Professional Experience

Internship – G.D S.p.A. (Coesia Group) (04/2023 - 06/2023):

- Conducted safety analysis and Functional Safety assessment on automated packaging machinery
- Calculated the Performance Level (PL) for safety-related parts of control systems (SRP/CS) in compliance with EN ISO 13849-1
- Collaborated with the engineering team to verify safety functions and hardware architecture (Category, MTTFd, DC, CCF)

Projects

- **Acrobot Project:** trajectory generation and tracking of a planar gymnast robot
- **System Identification & Data Classification:** Dynamical System Estimation and Data Classification implemented entirely from scratch in MATLAB
- **Infix-Postfix Transformer:** designed and implemented a custom Encoder-Decoder Transformer architecture using TensorFlow andKerass
- **Pneumatic System:** Pneumatic system for coffee capsule cartoning machines designed with FluidSim
- **Elevator Control:** elevator logic designed with Codesys

Other

In project-driven environments, I champion a collaboration-oriented approach and active listening, valuing constructive dialogue as a strategic lever for continuous improvement and the achievement of shared objectives.

My operational methodology is defined by rigorous analytical thinking and meticulous attention to detail, qualities essential for ensuring the accuracy and reliability of engineering solutions.

Parallel to my academic career, I cultivate a deep technical interest in the automotive and motorsport sectors