Arturo Maiani

Place and date of birth: Rome, 5 February 1999
Domicile: Rome, Italy
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EDUCATION

PhD in Automatic Control, Bioengineering and Operations Research — Rome, Italy

- Sapienza University of Rome — November 2022-Present
- My Research interest are Automatic Control, Data Driven Control and Deep Learning
- Supervisor: Professor Antonio Pietrabissa

Master of Science in Control Engineering — Rome, Italy

- Sapienza University of Rome — October 2020-October 2022
- Graduation Grade: 110/110 cum laude
- Developed my master thesis in collaboration with Pixies: Startup in the field of AI and robotics for autonomous outdoor litter collection. Thesis title: "Multi-point path planning for the unicycle via Deep Reinforcement Learning" (Python+ROS) GitHub page
- Analyzed the "Intrinsic dimension of neural networks" as a project for the course of "Deep Learning and Applied Artificial Intelligence" using PyTorch. GitHub page
- Completed project titled "Local Minimization of Motor Torques on Robots with Elastic Joints using Null Space methods" (Matlab) GitHub page
- Completed project titled "Gait generation for humanoid robots using stochastic model predictive control" for the course of "Autonomous and Mobile Robotics" (Matlab) GitHub page

Honors: *admitted to the "Excellence program"*

Bachelor of Science in Clinical and Biomedical Engineering — Rome, Italy

Sapienza University of Rome — September 2017-October 2020

- Graduation Grade: 110/110 cum laude

Honors: *selected among top 10 students of the course and awarded a partial reimbursement of fees*

High School — Rome, Italy

Scientific Liceum M. Malpighi — September 2012-June 2017

- Final Grade: 98/100
- Final dissertation: "Physiological reaction of the brain to music"

PROGRAMMING LANGUAGES / TEXT EDITORS

- **Python** (Tensorflow, PyTorch), **Matlab & Simulink**, **C ++**, **ROS, Latex**
- **Microsoft Office, Linux**

LANGUAGES

- **Italian** : Native
- **English** : Cambridge Certificate of Advanced English - level C1 (score: 191/200)
- **Spanish** : basic level

PUBLICATIONS

- Co-author of the article "Artificial Intelligence and Music Therapy in Support of Pediatric Neurorehabilitation", https://www.mdpi.com/2227-9032/10/10/2014

ADDITIONAL INFORMATIONS

- Selected for "Generation for Universities" Program: a career accelerator program financed by Intesa San Paolo and McKinsey & Company with the aim of creating a direct contact between 100 top students (selected among all Italian Universities) and Companies.
- I play various musical instruments such as Electric guitar, Bass guitar and Drums. I am currently studying Classical Piano. In addition, I have a strong passion for music composition