Simone Rotondi

Automation Engineer

A highly motivated and analytical Control Engineering student with experience in programming and a passion for cybersecurity and Linux.

Seeking to apply my skills and knowledge!

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📍 Rome, Italy   github.com/spbisc97

SKILLS

Problem-solving   Leadership   Communication   Team Work   Critical Reasoning

INTERESTS

Tech   Linux   3d Printing   Robotics   Machine Learning   Running   Sustainability

LANGUAGES

Italian
Native

English
Working

PROJECTS   Check Git for details

3D Printing
Built a 3d printer from scratch and tested its various applications and uses.

Arduino Multicopters
Build quadcopters with 3Dprinted custom frames while in high school.

Nonlinear Control
Code for ILQR-GNMS trajectory generation with parallel integration of TWIPs

Multi Agent
Code for Leaderless Consensus of Differential Drive vehicles

VOLUNTEER EXPERIENCE

Staff and Teacher
Si Può Fare Onlus (10/2014-07/2019)
Theater association with a focus on disabled people's integration

EDUCATION

MSc in Control Engineering, Sapienza University of Rome
10/2020 – 10/2023
Courses fully delivered in English. Ongoing thesis about autonomous Rendezvous, Proximity Operations and Docking (RPOD) on CubeSats using classical Controls and Machine Learning (DRL).

BSc in Automation Engineering, Sapienza University of Rome
09/2017 - 10/2020
Thesis about "Design and Implementation of a monitoring system for shared urban mobility". The objective was to create a platform able to provide Decision Support for shared urban mobility providers.

WORK EXPERIENCE

Developer - Ares2t (6 months)
11/2020 –05/2021
Ares2t is an Italian Start-up working on Smart-Grids, Mobility, AI, Relationship Management, and Telecommunication. Here me and my team had to talk to customers, develop and maintain web-based Decision Support Systems that I've started building in my bachelor's degree thesis.
Contact: Silvia Canale – silvia.canale@ares2t.com

CERTIFICATES

Attendance at CyberChallengeIT (02/2020 – 05/2020)
CyberChallengeIT, Team Sapienza University of Rome, hands-on courses of Cryptography, Web Security, Reverse Engineering, Binary Exploitation

TECHNICAL SKILLS

Programming Languages and Oss	MATLAB, Python, Php, SQL, JavaScript, C, Julia, Bash, Windows, Gnu-Linux (Ubuntu, Fedora, ...).
Tools and Middlewares	Office, Git, Docker, Laravel, Gazebo, MuJoCo, CoppeliaSim, ROS, Gym/Gymnasium, Nginx, VirtualBox, KVM, Apache, Traefik, Elk-stack.

MORE ABOUT ME

My curiosity of technology ignited from a young age. It all started when in high school I delved in hardware and Oss. Taking my passion to the next level I built my first Arduino quadcopter and 3D printer. As I progressed to university, after the first year in Aerospace Engineering I discovered my true calling in Automation and Control Eng. – the perfect blend of my interests.