



Théotime BALAGUER

Second year Ph.D. student in Robotics and Telecommunications

Contact

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Languages

French (native)
English (fluent)
Spanish (B1)

IT Skills

Linux, Windows OS
Git
ROS 2
NS3 simulator
Gazebo simulator
PX4 Autopilot
C++
Python
Java

Hobbies

Dance - Hip-Hop, Contemporary
Winter sports
Rock-climbing
Surf

Classical percussions
Member of a jazz band
Philharmonic orchestra

Expertise

- Aerial robotics
- Multi-robots systems
- Network architecture
- Communication systems
- Embedded development

Strengths

- Initiative taking
- Interpersonal relations
- Enthusiasm
- Conscientious
- Ambitious



Publications

Etat de l'art sur la co-simulation robotique et réseau des systèmes multi-robots

Théotime Balaguer, Olivier Simonin, Isabelle Guérin Lassous, Isabelle Fantoni

31èmes Journées Francophones des Systèmes Multi-Agents (JFSM 2023), Jul 2023, Strasbourg, France



Experience

2022-

Ph.D. student - INSA Lyon, ENS Lyon

- Efficient control of a fleet of UAV subject to heterogeneous communication constraints

2021-2022

Software Support Engineer at FORSK

- Handling and solving of worldwide customer base
- Expertise on 2G to 5G network planning with Atoll software and Aster propagation model
- Installation, configuration and licensing of a proprietary software
- Internal collaboration, including offices abroad (US, China, Australia)

2021 (6 months) Internship at SPIE ICS - Network Architect

- Conception of network and datacenter architectures (LAN, WAN, SDWAN, hyperconverged datacenters)
- Conception of cybersecurity processes strategy for national strategic systems
- Project leader (junior)

2020 (4 months) Research internship at INRIA Laboratory

- Development and usage of a LoRa test-bed for UAVs
- Litterature review on fleet of cooperative drones and networking
- Introduction to smart-cities challenges and opportunities

2017-2020

INSA Lyon students union - Executive board member

- Budget monitoring, team supervision, strategy
- Event organization: Partnerships, contracts, logistics, fundraising



Studies

2016-2021

INSA Lyon school of engineering - Telecommunications - with honours

2013-2016

High school Scientific Diploma - option Engineering sciences - with honours