Virgile de La Rochefoucauld (11/08/1996 : dd/mm/yyyy) · 35 rue de la villette 75019 Paris, France · virgile.dlr@protonmail.com · +33606779375

VIRGILE DE LA ROCHEFOUCAULD | RESUME

Status: Double Degree **PhD student** in **Graduate school of information science and technology, Takemura lab** at **Osaka University, Japan** and **INSA Toulouse, France** at **LAAS-CNRS Toulouse**

Fields: Robotic, Perception, Simulations, **Multi-robots Planning**, **System architecture and control**, multi-medium robots, trans-media robots

Comp. skills: Python and C++ (in O.O.P), Matlab/Simulink, LaTeX, linux, CAD, **ROS**, **ROS2**, Github

Activities: Reading, Hiking, Meditation, Video games, Muay thaï

Languages: **French** (mother tongue), **English** (full professional proficiency), **Japanese** (basic notions), **Spanish** (basic notions)

Working experiences

2021/2022 - 6 month	**Research student on multi-robot mission planning**	Osaka University

❯ Working on PhD subject, bibliography and preparation for PhD school oral examination at Takemura Laboratory. Construction of the subject on multi-robot, ASA (Aerial, Surface, Aquatic) drones and Human-In-The-Loop (HITL) interaction

2020/2021 - 6 month	**Internship as a perception engineer for a startup company**	NimbleOne

❯ Development of a visual SLAM localization module for a mobile robot, using inertial sensor fusion and multi-mapping to enhance state accuracy and robustness

2019/2020 - 5 month	**Internship on multi-robot monitoring mission**	ONERA (French Aerospace Lab)

❯ Deployment of a **multi-robot system** in a motion-captured environment, moving different drones in a **ROS2** simulated environment

2018/2019 - 4 month	**Internship at Takemura Laboratory of the Cybernetics Center**	Osaka University

❯ Modification of a **Drone** (UAV) and creation of a ROS-based path planning model for the MBZIRC2020 competition

2017/2018 - 5 month	**Internship at ISIR reaserch laboratory**	Sorbonne Université

❯ Modeling and control of **multiple robot arms** based on visual color sensor data

Projects

2022	**Vein infrared pattern identification**	Sysmex Corporation, Hyogo

❯ Computer vision and image processing for vein pattern assessement and recognition using Python

2020/2021	**Multi-robot collaboration for search and rescue**	Sorbonne Université

❯ Project manager and developer: Utilised Python/C+ in collaboration between mobile robot and drone for search and rescue problem

2022	**RoMarin Project**	Sorbonne Université

❯ Team project for the construction and optimisation of an ROV in C++, specialising in the construction of the robotic gripper

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Education

2022-current	**Double Degree PHD, LAAS-CNRS EDSYS/IST**	INSA Toulouse/Osaka University
	❱ Codirected PhD between INSA Toulouse in France and Osaka Univeristy in Japan. Subject on trans-media multi-robots systems and human robot interaction	
2018-2021	**MASTER 2, Advanced Systems and Robotics (SAR)**	Sorbonne Université/ENSAM
	❱ Master degree covering mechanical and software enginnering (A.I, programming, engineeriing..) in the CMI Mechanics, advanced university courses	
2018	**Erasmus Exchange in Munich**	Technische Universität München (TUM)
	❱ Advanced Mechanical departement, Full semester aboard	
2015 - 2018	**Bachelor in Mechanic**	Sorbonne Université
	❱ In the CMI Mechanics, advanced university bachelor, specialised in robotic and mechanical engineering	

Research scholarship

May 2022-May 2023	**Sysmex Scholarship**	Sysmex Corporation, Hyogo, Japan
	❱ Scholarship sponsored by Sysmex Corporation with part-time research on site	