## Sara Gomiero

Mother tongue(s): Italian

EDUCATION Doctoral studies	PhD Student in Autonomous Systems (DAuSY National PhD programme) Politecnico di Bari, Free University of Bozen-Bolzano Start (11-2023) – currently pursuing Supervisor: Prof. Karl von Ellenrieder Project: Robust and safe control of cargo drones
Graduate studies	MSc Student in Control Systems Engineering University of Padova Start (09-2021) – End (09-2023) Final Grade: 110/110 cum Laude Final Degree Project: Sampling-based synthesis of controllers for coupled agents under Signal Temporal Logic specifications Supervisor: Prof. Angelo Cenedese (Unipd), Prof. Dimos Dimarogonas (KTH)
Undergraduate studies	First level degree in Ingegneria dell'Informazione University of Padova Start (09-2018) – End (07-2021) Final Grade: 110/110 cum Laude Final Degree Project: Local community detection in multi-layer networks Supervisor: Prof. Tomaso Erseghe
High School	High School Diploma in Liceo Scientifico Ippolito Nievo, Padova (PD), Italy Start (09-2013) – End (07-2018) Grade: 100/100 cum Laude

## OTHER RELEVANT EDUCATIONAL EXPERIENCES

Erasmus + Studio	Hosting institution: Royal Institute of Technology (KTH), Stockholm, Sweden Start (02-2023) – End (07-2023)				
	Programme: Research for the final degree project in the department of Electrical Engineering and Computer Science and in the Smart Mobility Lab				
RELEVANT PROFESSIONAL EXPERIENCES					
Teaching assistant for Fundamentals of Information	Employer's name and address: Faculty of Engineering, Free University of Bozen-Bolzano, Bruno-Buozzi-Straße 1 -Via Bruno Buozzi 1, Bolzano (BZ) Start (10-2024) – End (02-2025)				
Science and Microcontroller Programming	Main responsibilities: Assistance during the lab sessions (total amount of hours: 36).				
Tutor Buddy for international students	Employer's name and address: Department of Information Engineering of the University of Padova, Via Gradenigo 6/b, Padova (PD) Start (09-2022) – End (02-2023) Main responsibilities: Supporting a group of 25 international students in administrative				
	procedures, answering their questions and helping them integrating in the city and university (total amount of hours: 50).				
Tutor junior for calculus 1	Employer's name and address: Department of Information Engineering of the University of Padova, Via Gradenigo 6/b, Padova (PD) Start (09-2022) – End (01-2023)				
	Main responsibilities: Solving exercises related to the course of calculus 1 for the students enrolled in the first year of the bachelor degree in Aerospatial Enginnering. Supporting and answering to doubts via email (total amount of hours: 50).				
Tutor junior for calculus 1	Employer's name and address: Department of Information Engineering of the University of Padova, Via Gradenigo 6/b, Padova (PD)				
	Start (09-2021) – End (01-2022)				
	Main responsibilities: Solving online exercises related to the course of calculus 1 for the students enrolled in the first year of the bachelor degree in Aerospatial Enginnering. Supporting and answering to doubts via email (total amount of hours: 50).				

## PERSONAL SKILLS

## Fnalish

English	UNDERST	UNDERSTANDING		SPEAKING					
	Listening	Reading	Spoken interaction	Spoken production					
		Cl	C1	C1	B2				
	Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages								
	Certificate: Cambridge B2 test obtained in 2017								
Other known language(s)	Spanish, anacistanaling and speaking level et, withing level bz								
Computer skills	outer skills Advanced: Use of Matlab and Simulink, Microsoft Office tools, Latex								
	Intermediate: Use c		er Notebook, C++						
	Basic: Use of Java, ,	Arduino							
Licences	B driving license in Italy (from 2017) A1/A3 and A2 drone licenses, Drone Class (from 2024)								
ADDITIONAL INFORMATION									
Awards	"Mille e una lode" merit-based award offered by the University of Padova, November 2020 (acceptance rate: 3%) "Mille e una lode" merit-based award offered by the University of Padova, November 2022 (acceptance rate: 3%)								
PUBLICATIONS									
International Conferences	S. Gomiero and K. von Ellenrieder, Chattering-free sliding mode control for position and attitude tracking of a quadrotor, CoDIT 2024*								
	S. Gomiero and K. von Ellenrieder, Chattering-free sliding mode control for position and attitude tracking of a quadrotor with a cable-suspended load, CASE 2024**								
	*An extended abstract based on this work was presented during the 3 <sup>rd</sup> International Symposium on Industrial Engineering and Automation (ISIEA 2024), 19-21 June 2024, Bolzano (Italy). The paper was presented during the 10th International Conference on Control, Decision and Information Technology (CoDIT 2024), 1-4 July 2024, La Valletta (Malta)								
	**The paper has also presented during th (CASE 2024), 28 Aug presented during th	ne 20th Internation gust – 1 September	al Conference on A 2024, Bari (Italy). A	Nutomation Science In abstract based o	e and Engineering on this work will be				