




Maxime Noizet

Robotics engineer, Ph.D.



27 yo, driving license

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Education

2021	PhD in Robotics	
2024	Université de Technologie de Compiègne, Sorbonne Universities Alliance (UTC)	
2015	Computer Engineering	UTC
2020	Specialization: Real-Time Systems and Embedded Computing	
2019	Master's Degree in Automatic Control and Robotics of Intelligent Systems	
2020		UTC

Courses

Nov. 2022	Use of GNSS for Precision Positioning	ENSG
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Languages

French	●●●●●
English	●●●●●
German	●●●●●
Japanese	●●●●●

Skills

Writing, Analysis, Autonomy, Adaptability, Collaboration, Project Management, Communication, Dissemination, Teaching, Popularization

References

Dr. Philippe XU
philippe.xu@ensta-paris.fr

Pr. Philippe BONNIFAIT
philippe.bonnifait@hds.utc.fr

Dr. Jean-Benoist Léger
jbleger@hds.utc.fr

Experience

Jan. 2025	CNRS Research Engineer	Heudiasyc, CNRS
July 2025	Robotic Perception and Localization	
	C++, Python, ROS, Git	
July 2021	CNRS PhD Candidate in Robotics	Heudiasyc, CNRS, UTC
Dec. 2024	Multi-sensor perception with vector maps for autonomous vehicle localization	
	★ Integration of lidars and cameras with georeferenced elements from vector maps for localization	
	★ Multimodal automatic annotation for images and lidar data	
	★ Adaptation of object detection algorithms	
	★ Multi-sensor fusion for localization in complex environments	
	C++, Python, ROS, Git	
Nov. 2020	CNRS Research Engineer	Heudiasyc, CNRS
June 2021	Localization integrity for autonomous vehicles, development of a 1D approximation module for data fusion	
	Python, C++, Cython, ROS, Git	
Feb. - Oct. 2020	Research Engineer Intern	Renault Group, UTC
	Long-term trajectory prediction for detected vehicles in complex urban environments	
	C++, ROS, Python, Git	
Sept. 2018	Assistant Engineer Intern	PiXYZ Software
Feb. 2019	Development of a visual programming feature for a CAD data optimization software	
	C++, Qt, Python, Git	

Technical skills

General	Robotics, Intelligent vehicles, real-time software development, embedded systems, multi-sensor fusion, perception, machine learning, statistics, numerical analysis, automatics
Languages	C++, C, Python, LaTeX, R, Matlab, Assembly, UML, SQL
Technologies	ROS, Git, Qt, Cython, Docker, Jupyter, Tensorflow, Pytorch, Matlab Simulink

Projects

2021-2024	European Project: ERASMO (EUSPA)	Heudiasyc, CNRS
	★ Role: Responsible for integration, data acquisition, demonstrations, and validation. Participation in dissemination activities.	
	★ High-integrity and high-precision localization system for autonomous navigation based on a multi-constellation GNSS PPP-RTK receiver, cameras, and lidars	
	★ Development of road feature detectors and a data association module using vector maps	
	★ Partners: GMV, Renault Group, Septentrio, Artisense, Nextium	
Spring 2021	National Project: Tornado (Ministry of Industry)	Heudiasyc, CNRS
	Preparation for the demonstration: vehicle and infrastructure integration, scenario planning	
Autumn 2019	European Project: ESCAPE (GSA)	Heudiasyc, CNRS
	Development of tools for localization integrity evaluation and visualization for demonstration	
Autumn 2019	Student Project: Teleoperation of Autonomous Vehicles	UTC
	Mission execution with real-time obstacle detection, obstacle avoidance maneuvers proposed by the teleoperator	

Publications

June 2023	Map-aided annotation for pole base detection	IV23, Anchorage, USA
September 2023	Pole-based Vehicle Localization with Vector Maps: A Camera-LiDAR Comparative Study	ITSC23, Bilbao, Spain
October 2024	Automatic Image Annotation for Mapped Features Detection	IROS24, Abu Dabi, UAE