

FEDERICO CAMARDA

Ph.D in Automation and Robotics | Autonomous Driving Doer

@camarda.federico@gmail.com

+33 6 56 67 00 27

Paris Versailles, France

federicocamarda

EXPERIENCE

Software Engineer

Ampere Software Technology, Paris

Dec 2021 – Present

- Embedded L2+ AD algorithms in MISRA C (SAFe Agile, CI/CD); one patented invention.
- Mentoring and technical leadership; hosted internal master-classes.
- Designed V2X hazard detection algorithms and on-vehicle proto-typing.
- Defined data payloads for ML-based off-board services enabling multi-million € businesses.
- Lectio magistralis at ENSTA Paris; PhD co-supervision at UTC Compiègne.

PhD Candidate

Renault Group, Paris

July 2018 – Sept 2021

- Designed multi-sensor L3 highway lane change experiments with HD-map, AVM, and cameras.
- Developed real-time C code under CI/CD safety-critical work-flows.
- Published in IEEE IV 2020; co-authored patent on HD-map cam-era fusion.

Research Intern

Heudiasyc Lab, Compiègne

Feb 2017 – July 2017

- Developed evidential occupancy grid generation and V2V coop-erative fusion.
- IEEE SoSE 2018 publication with 16 citations.

PROJECTS

CIFRE PhD Supervision

UTC Compiègne

2023 – 2024

- Co-supervisor for research on uncertainty estimation in percep-tion.

Lectio Magistralis

ENSTA Paris

2023 – 2024

- Guest lecturer in Ingénierie Systèmes Autonomes Master's Pro-gram.

MOST PROUD OF

Renault Innovation Awards Nominee
Patented ADAS invention among top group inventions.

Conf. Presentations
Spoken at top-tier international robotics conferences.

Top Erasmus+ Ranking
1st out of 134 students at UNIGE for Erasmus+ funding.

STRENGTHS

C++ Embedded Systems Sensor Fusion
Team Leadership Agile Dev Safety-Critical SW

CI/CD Multi-sensor Data Fusion Research Pro
Mentorship

TOOLS & TECHNOLOGIES

C, C++ Python Java Rust ROS2
RTMaps Matlab Git UNIX Android Studi
Simulink R

PUBLICATIONS

Books
E. Someone and T. Lim, *A Fictional Re-search*. Somewhere, Some Place, 2010.

Journal Articles
L. T. Wong and E. Someone, "A non-existent paper," *Journal of Carrying On*, vol. 12, 2011.
L. T. Lim, E. Someone, and A. Other, "A study into fireside story-telling," *Journal of Carrying On*, vol. 7, 2008.

Conference Proceedings
E. Someone and L. T. Lim, "Another pa-per something something," in *Proceedings of the 72nd AmaZing Conference*, Far Far Away, 2013.

LANGUAGES

Italian (Native)	<div><div></div><div></div><div></div><div></div><div></div></div>
English (TOEIC 970)	<div><div></div><div></div><div></div><div></div><div></div></div>
French (5+ years)	<div><div></div><div></div><div></div><div></div><div></div></div>
Spanish	<div><div></div><div></div><div></div><div></div><div></div></div>
Portuguese	<div><div></div><div></div><div></div><div></div><div></div></div>

EDUCATION

Ph.D. in Computer Science
UTC, Compiègne
<div><div></div> 2018 – 2021</div>
“Multi-sensor Data Fusion for Lane Boundaries Detection applied to Autonomous Vehicle” (CIFRE Doctorate)
M.Sc. Complex Systems Engineering
UTC, Compiègne
<div><div></div> 2016 – 2017</div>
Ranked 1st in class – EMECIS double degree program with UNIGE
M.Sc. & B.Sc. Computer Engineering
University of Genoa
<div><div></div> 2012 – 2017</div>
Graduated cum laude; ISICT/IANUA excellence track

REFEREES

Prof. Véronique Cherfaoui
@ UTC Compiègne
✉ veronique.cherfaoui@hds.utc.fr
PhD co-supervisor
Prof. Franck Davoine
@ UTC Compiègne
✉ franck.davoine@hds.utc.fr
PhD co-supervisor
Prof. Roberto Sacile
@ University of Genoa
✉ roberto.sacile@unige.it
Coordinator of EMECIS double degree
PHILOSOPHY
“Growth-oriented yet frugal. Mr. Bright-side and curious. Crisis-proof team player.”