europass

# Giovanni Lambertini

**Date of birth:** 18/12/1999 | **Nationality:** Italian | **Phone number:** (+39) 3426437742 (Mobile) |

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## EDUCATION AND TRAINING

01/11/2024 – CURRENT

**PHD IN COMPUTER AND DATA SCIENCE FOR TECHNOLOGICAL AND SOCIAL INNOVATION** Unimore - Department of Physics, Informatics and Mathematics "FIM"

26/10/2021 – 18/04/2024

**MASTER'S DEGREE IN COMPUTER ENGINEERING (CLASS LM-32)** Unimore - Department of Engineering "Enzo Ferrari"

**Final grade** 110/110 cum laude |

**Thesis** Software development and simulation for an autonomous driving stack for high speed racing

25/07/2018 – 20/10/2021

**BACHELOR'S DEGREE IN COMPUTER ENGINEERING (CLASS L-8)** Unimore - Department of Engineering "Enzo Ferrari"

**Final grade** 110/110 cum laude |

**Thesis** Design and implementation of a distributed event-driven architecture for IoT applications

**HIGH SCHOOL DIPLOMA** Obtained at Mater Virtual Academy - Miami (Florida)

11/09/2013 – 04/07/2018

**HIGH SCHOOL DIPLOMA - IT SPECIALIZATION** ITIS "Enrico Fermi" Mantova

**Final grade** 100/100

## WORK EXPERIENCE

**RESEARCH FELLOWSHIP – DEPARTMENT OF PHYSICS, INFORMATICS AND MATHEMATICS "FIM" (UNIMORE)** – 01/06/2024 – Current – MODENA

Study of solutions for running simulations and automatic reports

**INTERNSHIP AT HIPERT SRL** – 17/07/2023 – 18/12/2023 – MODENA

- C++ software development for an autonomous racing stack
- Testing and simulations

**INTERNSHIP AT UNIMORE – DEPARTMENT OF ENGINEERING "ENZO FERRARI"** – 28/02/2021 – 30/08/2021 – MANTOVA

Creation of an Apache Kafka-based architecture for managing smart city sensor data

**INTERNSHIP AT SIGLACOM** – 29/05/2016 – 23/07/2016 – LEVATA (MN)

- Web Design
- Web content administration
- Image manipulation with Photoshop

## SKILLS

html | css | javascript | php | sql | c, c++ | java | python | numpy, scikit-learn, pytorch | git

## LANGUAGE SKILLS

Mother tongue(s): **ITALIANO**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---|---|---|---|---|---|
| | Listening | Reading | Spoken production | Spoken interaction | |
| **ENGLISH** | B2 | C1 | B2 | B2 | C1 |

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## PROJECTS

30/11/2018
### Hackathon - SCIoTeM Smart City, Internet of Things and Mobility

Presentation of a Smart Parking project, with a podium finish

30/11/2018
### Hackathon - Milano Digital Week

Presentation of an e-learning platform to make remote lessons more engaging, with a podium finish

30/11/2019
### Machine Learning

Development of a Python program for the analysis of a cardiotocography dataset, with the aim of predicting the health status of a fetus.

30/11/2021
### Computer Vision

Use of convolutional neural networks for the recognition of urban elements and implementation of an adaptive cruise control

## PUBLICATIONS

2026
### Fast and Realistic Automated Scenario Simulations and Reporting for an Autonomous Racing Stack

**Authors**: G. Lambertini, M. Pini, E. Mascaro, F. Moretti, A. Raji and M. Bertogna | **Journal Name**: 2026 IEEE/SICE International Symposium on System Integration (SII) | **Volume, Issue and Pages**: pp. 1599-1606

2026
### Mission Performance: Automatic and Adaptive Race Pace Progression for Autonomous Racing

**Authors**: G. Lambertini, M. Pini; E. Mascaro; F. Moretti; A. Raji and M. Bertogna | **Journal Name**: 2026 IEEE International Conference on Intelligent Transportation Systems (ITSC)

*I hereby declare that the information contained in this curriculum vitae is true and correct pursuant to Articles 46 and 47 of the Italian Presidential Decree (D.P.R.) 445/2000. I authorize the processing of my personal data included in this CV pursuant to Article 13 of the Italian Legislative Decree 196/2003 and Article 13 of the GDPR (EU Regulation 2016/679).*

Modena , 29/09/2026

Giovanni Lambertini