

University Academic Curriculum Vitae

Personal information Caruso Emanuele

- Education since leaving school**
- First degree: Electronic Engineering
2012/17, Roma Tre University
 - Post-graduate degree: Artificial Intelligence and Robotics,
2017/22, Sapienza University of Rome
 - PhD: Advanced-systems engineering, 2022/...

- Present appointment**
- Title of appointment: Teaching assistant
 - Start of appointment: 01/10/2024
 - Level of appointment: national
 - Employer: PhD student at Free university of Bozen-Bolzano
 - Responsibilities: Assisting the professor in laboratories.

Professional experience

From / to	Job title	Name of academic Institution	Academic level	responsibilities
01/11/22 01/11/25	PhD	Free university of Bozen-Bolzano	PhD student	Computer vision and AI for automating visual inspection and creating parts' digital twin
16/11/23 24/02/24	Teaching assistant	Free university of Bozen-Bolzano	PhD student	Assisting the professor in laboratories
01/06/24 31/05/26	Employee with research tasks	Covision Lab SCARL	PhD student	Research on novel industrial use-cases connected to the PhD

Experience in academic teaching Course:
Algorithms and programming, 16/11/23 - 24/02/24, Free university of Bozen-Bolzano, Electronic engineering, 8 students supervised

Research and scholarships

Summary: I got a PhD Scholarship fully founded by "Schaeffler Automotive Buehl GmbH & Co."

Date granted	Award Holder(s)	Funding Body	Title	Amount received
01/11/22	Caruso Emanuele	Schaeffler Automotive Buehl GmbH & Co.	PhD: Computer vision and AI for automating visual inspection and creating parts' digital twin	20.000€ gross per year (3 years)

Publications

- Conference papers:
- (Extended-abstract) Digital twins and predictive AI-based inspections for quality control, Ital-IA 2023, 05/23
 - (Full-paper) GRASP-GCN: Graph-Shape Prioritization for Neural Architecture Search under Distribution Shifts, ICLR 2024 Workshop DMLR, 03/2024

- (Full-paper) Automated visual inspection via differentiable physically-based rendering under unknown illumination , ISIEA 2024, 06/2024

Statement of interest I will actively support the lead professor during the laboratory sessions of the 'Algorithms and Programming' course at the Free University of Bozen-Bolzano. My contributions will include delivering lectures, providing support to students, and preparing course materials. As stated in my CV, this is my second appointment for this specific course.

Language competence Italian – native language
English - C1

Date
09/08/2024