

PERSONAL INFORMATION

Eduard Antonovic Occhipinti



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<https://github.com/eduardz1>

Date of birth 14 February 2001 | Nationality Italian

EDUCATION AND TRAINING

2023–TBD Master's Degree in Computer Engineering

TBD

Polytechnic University of Turin, Italy

Other Experiences *Currently participating in the HKN Honor Society (<https://www.hknpolito.org/>)*

*Currently participating in the Special Project for the course of **Computer Architecture***

Grades Weighted average: 28.43

– First Year

• **01DSHOV - Big Data Processing and Analytics: 29**

• **01SQJOV - Data Science and Database Technologies: 28**

2020–2023 Bachelor's Degree in Computer Science

110 cum laude

University of Turin, Italy

Experience Abroad *Erasmus exchange at the University of Oslo, Norway*

Here I followed an introductory course to the field of Artificial Intelligence and Machine Learning and did my internship at the research lab, which is the subject of my thesis.

Thesis *Design and Development of the Digital Twin of a Greenhouse*

In this thesis I talked about the concept of Digital Twin and its applications, about concepts related to the Semantic Web and introduced a novel programming language called **SMOL**, developed by researchers at the University of Oslo to help interfacing with Digital Twins. Then I talked about the project that was assigned to me and my colleagues to serve as a proof of concept for the language and build the basis for its usage on a larger scale.

PDF: <https://github.com/eduardz1/Bachelor-Thesis/blob/main/main.pdf>

Related paper presented at **SEAMS 2024**:

<https://conf.researchr.org/details/seams-2024/seams-2024-artifact-track/5/GreenhouseDT-An-Exemplar-for-Digital-Twins>

Other Experiences *Helped the professor as lab assistant for the course of **Operating Systems***

*Helped with the organization and the lectures of a course on **Python** for High School students interested in Computer Science*

Grades Weighted average: 28.63

– First Year

- **MFN0586 - Computer architecture:** 26
- **MFN0578 - Discrete Mathematics and Logic:** 29
- **MFN0590 - English I:** *passed*
- **MFN0570 - Mathematical Analysis:** 28
- **MFN0588 - Matrix Calculus and Operational Research:** 27
- **MFN0582 - Programming I:** 30
- **MFN0585 - Programming II and Laboratory:** 30L

– Second Year

- **MFN0597 - Algorithms and Data Structures:** 30L
- **MFN0602 - Databases:** 29
- **MFN0603 - Formal Languages and Compilers:** 28
- **MFN0600 - Foundations of Probability and Statistics:** 30L
- **MFN0604 - Management, business administration and computer law:** 29
- **MFN0601 - Operating Systems:** 25
- **MFN0598 - Physics:** 30

– Third Year

- **MFN0606 - Development of Software Applications:** 28
- **MFN0610 - Languages and Programming Paradigms:** 30L
- **MFN0633 - Formal Methods:** 27
- **MFN1362 - Computer Networks:** 30L
- **MFN0605 - Programming III:** 30
- **IN3050 - Introduction to Artificial Intelligence and Machine Learning** 30

2015–2020 Scientific High School

100

I.I.S. Curie-Vittorini, Italy

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
IELTS Academic – 8.0					
Russian	B1	A1	B1	B1	A1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

- Computer skills**
- experience with Programming in C, C++, Java, Python, R, Haskell, Agda, ARM Assembly
 - experience with SQL, InfluxQL, SPARQL, MQL
 - good knowledge of Gradle and Makefile as build tools
 - experience with LaTeX and Typst
 - experience with 3D modelling in Blender
 - experience in Digital Drawing
 - competent with most Microsoft Office programmes
 - competent with most Adobe programmes and photo processing software
 - basic knowledge of AutoCAD

Driving licence B, AB