Eduard Antonovic **Occhipinti**

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Double degree Computer Engineering student looking for an internship in the AI&ML field

Education

Polytechnic University of Turin | Grenoble INP - Ensimag, UGA   *Italy | France*
MASTER IN COMPUTER ENGINEERING WITH A SPECIALIST TRACK IN ARTIFICIAL INTELLIGENCE AND DATA ANALYTICS   *2023 - TBD*
MASTER OF SCIENCE IN INFORMATICS OF GRENOBLE

- **Experience Abroad** *Double Degree Program with Grenoble INP - Ensimag, UGA.*
- **Other Experiences**

  ‣ Participated in a Special project for the Computer Architecture course, the project consisted in studying the various **TinyML** techniques used to optimize **TensorFlow** models with the objective to run inference on a pre-trained model running on an **embedded device**(RISC-V, X-HEEP platform).
  ‣ Currently working on a **Fault Injection System for Redundant Systems** written in **Rust** with the System and Device Programming professor.

University of Turin   *Italy*
BACHELORS OF SCIENCE IN COMPUTER SCIENCE | 110 CUM LAUDE   *2020 - 2023*

- **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 informatics research lab, in the Formal Methods group.
- **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

Projects & Associations

IEEE - HKN Honor Society   *Turin, Italy*
MEMBER OF THE AREA TUTORING   *2023 - Present*

Certificates

    2023   **IELTS Academic 8.0**, British Council

Publications

Kamburjan, E., Sieve, R., Prabhu Baramashetru, C., Amato, M., Barmina, G., Occhipinti, E., & Broch Johnsen, E. (2024). GreenhouseDT: An Exemplar for Digital Twins. *Proceedings of the 19th International Symposium on Software Engineering for Adaptive and Self-Managing Systems*, 175–181. https://doi.org/10.1145/3643915.3644108

Skills

Languages	Italian	English	Russian
Other Languages	• Good experience with **C**, **Java**, **Python**, **Rust**, **SQL**, **Javascript**, **Typst**
	‣ Worked a lot with numpy, tensorflow, scikit-learn, matplotlib
	• Good knowledge of **Gradle**, **Makefile** and **Cargo** build tools
	• Intermediate experience with **C++**, **R**, **Haskell** and **Agda**
	• Have worked with **ARM Assembly**, **InfluxQL**, **SPARQL**, **MQL** and **LaTeX**
	‣ Experience with time series databases like **InfluxDB** as part of my bahelor thesis
Driving License	B	AB