
Nicolò Carpentieri

COMPUTER SCIENCE ENGINEER



DATE OF BIRTH: 11/11/1999

PLACE OF BIRTH: ARIANO IRPINO, (AV), ITALY

NATIONALITY: ITALIAN

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Objective

With a Bachelor's degree in Electronics and a Master's degree in Computer Science with a focus on Embedded Systems, I am a result-driven, resourceful, and proactive person. I thrive in fast-paced environments, whether working individually or as part of a team. I am always keen on undertaking new personal challenges. My passions are related to hardware architecture with a high interest in researching how to exploit them for machine learning algorithms.

Education

2021-2024

Politecnico di Torino

Master's degree: Computer Science Engineering

Thesis: "Designing and Evaluating Mapping of CNN layers on an edge-CGRA"

2018-2021

Politecnico di Torino

Bachelor's degree: Electrical Engineering

Honors and awards

June 2022

Induction in IEEE-HKN (Mu Nu Chapter)

Officially inducted in the Mu Nu Chapter of IEEE-HKN, the chapter of Polytechnic University of Turin

January 2021

Pong Project

In the last semester, I have developed a lite version of the game « Pong » on a LandTiger V2.0 NXP LPC1768 ARM board. This project was assigned by my teacher of Computer Architecture, Paolo Bernardi, as part of the final exam, and the final score was 3.5/4.

April 2015 **Aldo Morelli Award**
During my high school experience, I ranked 1st at the regional selection of Aldo Morelli Award.

Research experience

2023-2024 **EPFL**
Visiting student ESL

- Mapping CNN algorithm onto CGRA

Publications

2024 **Conference papers**

(Peer-Reviewed)
Carpentieri, N., Sapriza, J., Schiavone, D., Jahier Pagliari, D., Atienza, D., Martina, M., & Burrello, A., "Performance evaluation of acceleration of convolutional layers on OpenEdgeCGRA," Proceedings of the Conference on Future Computing (CF '24), May 7-9, 2024, Ischia, Italy, pp. 4
<https://arxiv.org/abs/2403.01236>

Extracurricular Activities

March 2020 – June 2022 **HUMAN RESOURCE MEMBER OF ETA KAPPA NU**
I am a Human resources Member at Mu Nu Chapter of IEEE- Eta Kappa Nu. Me and my team are involved on the selection of the new members, and on the activities of the chapter during the semesters.

March – April 2016 **Member Youth European Parliament**
Participated as Delegate during the 37th National Session in Orvieto

Community service

2015 - Present **Member Associazione Sante Spine**

Languages

Italian Native language

English IELTS results: Reading – 6.5
Listening – 6.0
Writing – 6.0
Speaking – 6.5
Total: 6.5

Computer skills

Programming C, C++, Python, VHDL, Verilog
