

Giovanni Pollo

Embedded System Engineering

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INTRODUCTION

My interest and passion for scientific and technological subjects allowed me to obtain a grade of 101/110 in a three-year degree at the Politecnico di Torino and a grade of 110/110 cum Laude in the Master's Degree.

The experiences abroad formed me both under the cultural and relational aspects and have increased my independence and problem-solving ability.

EDUCATION

Master's degree in Embedded Systems

Politecnico Di Torino | 2020 - 2023

Bachelor's degree in Electronic Engineering

Politecnico Di Torino | 2017 - 2020

SKILLS

- Linux, Docker
- C, C++, Bash, LaTeX, VHDL, Verilog, CUDA, Python, HLS
- Visual Studio Code, JetBrains Editors, Office Suite
- Digital Design, Hardware Design, FPGA
- Cybersecurity for Embedded Systems
- Neural Networks Accelerators

CERTIFICATION

Cambridge C1 Advanced

Milan | 2016

Cambridge B2 First

Milan | 2015

EXPERIENCE

Children's Supervisor

Astro Park Tallaght, Dublin | July 2017 - September 2017

- Improvements in the English language
- First approach to a work environment
- Ability to manage a group of people
- Deadlines

Study abroad

Joseph Chamberlain Sixth Form College, Birmingham | August 2016 - December 2016

- Improvements in the English language
- Get in touch with different cultures
- Deadlines
- Participation in many group project
- Ability to live abroad

PROJECTS

DLX Microprocessor Design

Politecnico Di Torino | March 2021 - July 2021

- VHDL structural design
- Windowed register file
- Five Stages Pipeline
- Enhanced Booth's Multiplier
- Hazard detection

CUDA Video Streaming

Politecnico Di Torino | September 2021 - February 2022

- Fully functional on NVIDIA Jetson Nano board
- Maximum parallelism with threads and kernels
- Comparison between CPU and GPU performance
- Independent module for higher scalability

THESIS

Resilience analysis of FPGA-based Dataflow accelerators

Politecnico Di Torino | June 2022 - April 2023

- Neural Network Accelerators
- Dataflow architecture
- HLS optimization
- Bit-Flips attack
- Analysis of the accuracy degradation in presence of hardware errors