

# Luca Dalmasso

EMBEDDED SYSTEMS ENGINEER · ASIC DESIGN & VERIFICATION

Cork, Ireland

☎ +353/ 871809965 | ✉ luca.dalmasso.97@outlook.it | 🌐 github.com/Luca-Dalmasso | 🔗 linkedin.com/in/luca-dalmasso-997b70255

## Work Experience

### Qualcomm

Cork, Ireland

GPU Design Verification Engineer

February 2023 - Present

- Working remotely with the GPU Power DV Team based in San Diego (USA)
- Maintaining and improving existing test cases and verification components into new projects
- Presenting verification strategies to validate the latest features in the design
- Debugging design issues and providing detailed documentation and reports
- Collaborating with cross-functional teams to get closure on all assigned tasks and achieve the verification milestones
- Hands-on experience with verification of multi-million gates ASICs
- **Technical Skills:** SystemVerilog (IEEE 1800), Universal Verification Methodology (UVM), Digital IC Verification.

### Sistematica S.p.A

Città di Castello (PG), IT

Programmer Analyst

April 2020 - July 2020

- Development of a tool, written in Python, used to interface a Raspberry Pi with the Electronic Control Unit of an electric vehicle prototype to monitor and inject traffic in the CAN Network
- **Technical Skills:** Testing.

### I.S.C.S srls

Turin, IT

Software Programmer - Internship

June 2019 - Sept 2019

- Development, testing and release of an iOS and Android application for wearable devices
- I mainly contributed to the backend code for the acquisition and processing of biometric data
- **Technical Skills:** Software Engineering.

## Education

### Politecnico di Torino

Turin, IT

M.Sc. degree in Computer Engineering

2020 - 2022

- Design of complex digital systems using hardware description languages
- Study of the synthesis and optimisation techniques to improve the product performances
- Analysis of the correctness and reliability of the final product
- **Technical Skills:** Digital IC Design, Application Specific Integrated Circuits (ASIC), Design For Testability (DFT)

### Politecnico di Torino

Turin, IT

B.Sc. degree in Computer Engineering

2017 - 2020

- **Technical Skills:** C, Computer Science, Electronics

## Projects

### MC2101: A RISC-V-based Microcontroller for Security Assessment and Training

Politecnico di Torino, IT

Master's degree thesis

2022

- RTL design of the bus infrastructure, memory and peripherals of a RISC-V microcontroller
- Software design of system libraries and test programs to evaluate the system on FPGA.

### Design of a LBIST circuit for testing the RI5CY processor

Politecnico di Torino, IT

Testing and Fault Tolerance course project

2022

- Design of a synthesizable Logic build-in self-test (LBIST) for a RISC-V processor for power-on testing.
- Adoption of Test-per-Scan methodology optimised for area, timing and complexity reduction for testing big sequential circuits.

### Design of a 4-Stage pipelined RISC processor

Politecnico di Torino, IT

Microelectronic Systems course project

2021

- Implemented complex arithmetic blocks from Pentium 4 and UltraSPARC T2 processors, Hazard Detection features and Clock Gating technique.

## Languages

**English** Professional proficiency

**Italian** Native proficiency

**Open to relocate.**