

Luca Dalmasso

COMPUTER ENGINEER · ASIC DESIGN & VERIFICATION

Cork, Ireland

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Work Experience

Apple

SoC DFT Verification Engineer

Munich, Germany

August 2024 - Present

- Verification of the overall SoC DFT infrastructure with focus on controllability and observability of mixed-signal IPs
- Generation of test-patterns for ATE to support silicon bring-up in production phase
- **Technical Skills:** Design For Testability (DFT), Digital IC Verification, Silicon Bring-up

Qualcomm

GPU Design Verification Engineer

Cork, Ireland

February 2023 - June 2024

- Presented verification strategies to validate the latest features in the design
- Collaborated with cross-functional teams located in different geographical locations to get closure of the verification milestones
- Hands-on experience with verification of complex multi-million gates logic partitioned in multiple power domains
- **Technical Skills:** SystemVerilog (IEEE 1800), Universal Verification Methodology (UVM), Digital IC Verification, Unified Power Format (UPF)

Sistematica S.p.A

Programmer Analyst

Città di Castello (PG), IT

April 2020 - July 2020

- Development of Python tool to interface a Raspberry Pi with the ECU of an electric vehicle to monitor and inject traffic in the CAN Network
- **Technical Skills:** Hardware-in-the-loop (HIL), Testing

I.S.C.S srls

Software Programmer - B.Sc Internship

Turin, IT

June 2019 - Sept 2019

- Development of the backend code for an iOS/Android app used for the acquisition and processing of biometric data of medical wearable device
- **Technical Skills:** Software Engineering.

Education

Politecnico di Torino

M.Sc. degree in Computer Engineering

Turin, IT

September 2020 - October 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

B.Sc. degree in Computer Engineering

Turin, IT


September 2017 - March 2020

- Solid background on maths, physics, computer science & electronics
- In-depth aspects of information processing systems and computer architecture
- **Technical Skills:** C, Computer Science, Electronics

Projects

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

Politecnico di Torino, IT

 M.Sc Thesis -  MC2101

2022

- RTL design of the bus infrastructure, memory and peripherals of a RISC-V microcontroller
- Coded the firmware and the test suite to synthesise and validate the design on FPGA

RTL design & synthesis of a LBIST circuit

Politecnico di Torino, IT

 RISC-V Core

2022

- RTL design of a LBIST wrapper for testing stuck-at faults of a RISC-V core using Test-per-Scan methodology

RTL design & synthesis of a 4-stage pipelined RISC DLX processor

Politecnico di Torino, IT

 DLX

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