GABRIELE ARCIDIACONO
EMBEDDED SYSTEMS ENGINEER

📍 Torino, Italy • ✉ gabriarci02@gmail.com

WEBSITES

🌐 my-portfolio-website

in gabriele-arcidiacono

TopGabri

COMPUTER SKILLS

- **Languages**: C, Python, Java, JS, Bash, Tcl, Arm assembly, VHDL, SystemC
- **Software**: Linux, Git, Qemu, FreeRTOS, STM32CubeIDE, Design Vision, QuestaSim, PrimeTime, VSCode, Vivado, Keil uVision, Arduino IDE, LaTex

SOFT SKILLS

- Problem solving
- Work ethic
- Precision
- Organization
- Leadership

LANGUAGES

- Italian (Native)
- English (Fluent, C1)

INTERESTS

- Sports and piano playing

PROFILE

Passionate Master's student in Computer Engineering with a focus on Embedded Systems. I integrate software and hardware design through proficiency in multiple languages. Looking for an internship where I can learn from real-world challenges and build impactful technology.

EDUCATION

Master of Science in Computer Engineering | Embedded Systems
2024 - Present
Torino, Italy
Politecnico di Torino

- Expected gratuation in 2026
- **Core subjects:** embedded hardware and software design, microcontroller programming, system optimization, testing, energy-efficient IoT architectures

Bachelor of Science in Computer Engineering
2021 - 2024
Torino, Italy
Politecnico di Torino

- Graduated with *110/110 cum laude*
- **Core subjects**: software development, electronics, signal processing, computer architecture

PROJECTS

Pac-Man

- Developed the Pac-Man game in C on the LandTiger board (*NXP LPC1768* Soc, *Arm Cortex-M3*)

DLX processor

- Designed, implemented and tested a 5-stage pipelined *DLX* (RISC) processor in VHDL with advanced features

Board emulation with Qemu

- Emulated a custom version of a *NXP* board with *Qemu*, integrating UART and CAN peripherals, and tested with FreeRTOS

Low-Power contest

- Wrote a Tcl procedure for *PrimeTime* that minimizes post-synthesis leakage power

EXPERIENCE

Fragments, SRL | Intern Web Developer
2024

- Development and testing of full stack web components pertaining to the company's projects based on NextJS technology.