

Simone Shawn Cazzaniga

Design Engineer - DSP/Electroacoustics R&D

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I constantly strive to find and contribute to exciting and well-executed projects that serve a meaningful purpose within the Audio Digital Signal Processing landscape and adjacent fields. I value working with teams and individuals that share a sound work ethic and that are committed to crafting excellent products that are both useful and elegant. Feel free to explore [my full résumé](#) for additional details about my work experience, personal projects, online courses and hobbies.

Italian@Native | English@C1 | Chinese@A1

PROFESSIONAL EXPERIENCE

Design Engineer - DSP/Electroacoustics R&D (BdSound) Milan	2023-08 - Current.
State of the art DSP/ML audio algorithms prototyping (Python3) and implementation (C99/C++20/Pybind11/JUCE) such as BEV engine sound generation, echo and feedback cancellation, spatial audio, media processing.	
Technical Author (RISC-V Foundation)	2022-11 - 2023-03
Chapter 3 through 6 of the RISC-V Fundamentals (LFD210) course.	
Research Engineer Intern (ST Microelectronics)	2023-02 - 2023-07

EDUCATION

M.Eng. Music&Acoustics Engineering (Politecnico di Milano) Milano (it)	110/110	2022-12
B.Eng. Automation&Control Engineering (Politecnico di Milano) Milano (it)		2020
Diploma di Liceo Classico (Liceo Classico Bartolomeo Zucchi) Monza (it)		2016

PROJECTS

IdPN Flutter Website	2019-09 - Current
SHEAS - Simple Hardware Editor And Simulator	2022-07 - Current
Introduction to Pipelining - CompArch Lesson Using SHEAS	2022
Nand2Tetris Online JS Simulator Reimplementation	2021-03
RISC-V RV32IMAC Sliderules	2021

ONLINE & SINGLE COURSES

Numerical Modeling & Simulation in Acoustics (054274)	2024
Science, Technology and Wikipedia PhD Course	2023-06 2023-07
User Experience Research and Design Specialization (Auditor)	2025 - Current
Nand2Tetris I&II (Auditor)	2020 2021

VOLUNTEERING

RISC-V/LFX Mentor	2023
1. Bringing the "Sliderules" Cheat Sheets to the Web Mentorship (Summer 2023)	
2. Add F-extension support to "Ripes" RISC-V Micro-Architectural Visual Educational Simulator (Autumn 2023)	
Camp Coordinator for S.C.I. camp IT-SCI 10.2 Chivasso, Italy	2023-07
Camp Coordinator for S.C.I. camp IT-SCI 13.1 Rome, Italy	2022-08
Local Event Coordinator for S.C.I. Workshops Milan, Italy	2021 2024
Volunteer for S.C.I. camp AM-HUJ 18.4 Yerevan, Armenia	2019-07
Volunteer for S.C.I. camp PT-BG 26.1 Aldeia Nova, Portugal	2017-09

C99 | C++20 | Python3 | NumPy | SciPy | Pandas | JUCE | VSCode | Git | Reaper | Jupyter