Domenico Stefani

Date of birth: 18/12/1996 | **Nationality:** Italian | **Gender** Male | (+39) 3403986482 | domenico.stefani96@gmail.com |

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EDUCATION AND TRAINING

01/11/2020 – CURRENT
PHD STUDENT: INFORMATION AND COMMUNICATION TECHNOLOGY DOCTORAL SCHOOL – Università degli Studi di Trento

10/09/2018 – 21/10/2020 – Trento, Italy
MASTER DEGREE IN COMPUTER SCIENCE (110/110 CUM LAUDE) – University of Trento

Free-choice credits were allocated with particular interest to courses such as Multisensory Interactive Systems, Machine Learning and Deep Learning.
A relevant project, developed for the Deep Learning course, revolved around objective music evaluation and automatic generation of music scores using machine learning.
Thesis topic involved real time feature extraction and classification of audio signals and C++ developement for audio DSP.

110/110 cum laude | Embedded real-time classification of percussive and pitched sounds on a smart guitar |

EQF level 7

12/09/2015 – 23/07/2018 – Trento, Italy
COMPUTER SCIENCE (105/110) – University of Trento

C/C++ Imperative programming
Object-Oriented Programming
Database management
Software Engineering
Web programming
Algorithms, Machine Learning and Compilers

105/110 | EQF level 6

10/09/2010 – 10/06/2015 – Schio, Italy
INDUSTRIAL TECHNICAL INSTITUTE DIPLOMA - ELECTRICAL/ELECTRONIC TECHNICIAN (100/100) – Istituto Tecnico Superiore "Silvio De Pretto"

Electronics specific subjects were studied, with particular attention to C Programming for embedded systems and basic desktop apps programming

WORK EXPERIENCE

01/11/2020 – 02/2021
UNIVERSITY TEACHING ASSISTANT

Teaching assistant for the course of Multisensory Interactive Systems for the Computer Science and Human Computer Interaction master degrees students.
General assistance on projects and technical difficulties with both software and hardware devices (microcontrollers, sensors, electronics).

17/02/2020 – 21/10/2020
THESIS RESEARCH INTERNSHIP – DISI, UNIVERSITY OF TRENTO

Supervisor: Prof. Luca Turchet

Thesis research involving real time feature extraction and classification of audio signals, performed harnessing C++ developement for audio DSP.

04/06/2018 – 14/07/2018

COMPUTER PROGRAMMER – VIVICA S.R.L.

(Internship)
I developed a project on my own for the company.
The product delivered was a complete client-server system that exploited UDP broadcast messages to allow technicians to remotely configure multimedia devices made by the company itself.
C/C++ languages were used in a multiplatform fashion and Java for Android Programming in order to offer a graphical interface to the native library.

Professional, scientific and technical activities | www.vivica.com | via Tempesta 9, 36063, Marostica, Italy

01/06/2014 – 01/07/2014
ELECTRICAL TECHNICIAN INTERN – ACS CONTROLS LTD

(Internship for the european mobility "Leonardo Da Vinci" project, now Erasmus+)

Londonderry, United Kingdom

01/06/2013 – 01/07/2013
ELECTRICAL TECHNICIAN INTERN – NEKOS S.R.L.

Mason Vicentino, Italy

● LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● PUBLICATIONS

D. Stefani and L. Turchet. "Demo of the TimbreID-VST Plugin for Embedded Real-Time Classification of Individual Musical Instrument Timbres"

Proceedings of IEEE FRUCT'27 2020
2020

D. Stefani and L. Turchet. "Bio-Inspired Optimization of Parametric Onset Detectors"

Proceedings of DAFx 20in21 (Accepted)
2021

● ORGANISATIONAL SKILLS

Organisational skills

good team-leading skills gained as project manager for university projects

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- good communication and active listening skills gained through various internships in italy and one in Northern Ireland, UK.

JOB-RELATED SKILLS

Job-related skills

- Good base knowledge of microcontrollers (Atmel, Arduino boards, Teensy) and basic electronics gained through my pre-university studies, personal projects and the Multisensory Interactive Systems course.
- Good knowledge of C and C++ languages acquired through university courses, practical work at Vivica S.r.l (internship) and thesis research, with emphasis on the JUCE audio programming framework
- Good knowledge of Java and Python.
- Good knoweledge of web languages: Java for Web, Javascript and Node.js
- Good knoweledge of SQL based languages and ER database representation.
- Good knoweledge of versioning principles and the git/github tool.

OTHER SKILLS

Other skills

- music: passionate guitar player and music listener

AWARDS

Awards

- Leonardo Project (now Erasmus+) traineeship in Derry/Londonderry, Northern Ireland (2014)
- Merit Award, University of Trento (2018)

ORGANIZING ACTIVITIES

Organizing activities

- Local organization staff member of the IEEE 1st International Workshop on the Internet of Sounds 2020 at University of Trento
- Fablab volunteer (UNITN Fablab)