europass

Angelo Anzalone

ABOUT MYSELF

As an Electronic Engineer, I bring a solid technical foundation combined with an enthusiasm for innovative technologies. Throughout my career, I have maintained a genuine curiosity that drives me to continually expand my knowledge and capabilities in the field.

WORK EXPERIENCE

STMICROELECTRONICS – ARZANO (NAPLES), ITALY

INTERNSHIP (BACHELOR'S DEGREE) – 14/03/2018 – 12/07/2018

Project Highlights

- Developed a LLD (Low Level Driver) for I2C serial communication protocol applied to a GNSS testing framework. Implemented a C++ to manage the I2C communication between the STM32-F401RE Nucleo-64 board and the X-NUCLEO-GNSS1A1 expansion board.

UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II – NAPLES, ITALY

THESIS (MASTER'S DEGREE) – 19/10/2020 – 19/07/2021

Project Overview

- The work aimed to demonstrate the potential of Artificial Intelligence on edge devices, characterized by low performances and low power consumption.
- The case study considered biomedical ECG signal and the classification of arrhythmias.

Hardware and Software Utilized

Hardware:

- B-L475E-IOT01A Discovery Kit
- MAX30003WING Expansion Board

Software:

- Edge Impulse
- STM32CUBEIDE

The result obtained attest that is possible to perform an analysis based on the morphology of the ECG wave.

HITACHI RAIL S.P.A. – NAPLES, ITALY

INTERNSHIP – 15/09/2021 – 15/03/2022

Skills and Experience

- Gained practical experience in using Python for data analysis, with a primary focus on working with Excel files.
- Achieved hands-on experience in Java application development.

JMA WIRELESS – CASTEL SAN PIETRO TERME (BO), ITALY

FIRMWARE ENGINEER – 01/04/2022 – 14/04/2024

Skills and Experience

- Proficient in working with SoC architectures (C, C++), with a specific focus on ARM Cortex-R5 32-bit processors running FreeRTOS.
- Skilled in interfacing with Analog-to-Digital Converters (ADCs) and Digital-to-Analog Converters (DACs) through I2C and SPI communication protocols.
- Proficient in utilizing a spectrum analyzer, oscilloscope, and multimeter for signal analysis, waveform visualization, and precise electronic measurements.
- Effective collaboration with colleagues from the United States, fostering a dynamic and productive working relationship.

ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA – BOLOGNA, ITALY

RESEARCH FELLOW IN OCCUPATIONAL MEDICINE (ENGINEERING) – 15/04/2024 – CURRENT

Skill and Experience

Contributing to an ongoing research project that investigates cognitive load in human-robot collaboration within industrial environments, with a focus on technical tasks including:

- Developing and populating an experimental database, performing data analysis, and interpreting results (Excel, Python).
- Employing sensor-equipped gloves to collect physiological and interaction data for real-time load assessment.
- Contributing to the organization and management of the technical setup for tests, ensuring the efficient and accurate execution of experiments in collaboration with the research team.
- Collaborating closely with professors and researchers in biomedical engineering, occupational medicine, and neurophysiology to drive the achievement of project goals.

EDUCATION AND TRAINING

19/09/2018 – 19/07/2021 Napoli , Italy

MASTER'S DEGREE IN ELECTRONIC ENGINEERING Università degli Studi di Napoli Federico II

Address Corso Umberto I, 40, 80138 , Napoli , Italy | **Website** https://www.unina.it/home |

Field of study Digital electronics, Power electronics | **Final grade** 110/110 e lode | **Level in EQF** EQF level 7 |

Type of credits CFU | **Number of credits** 180 |

Thesis Design of an electronic system for eHealth applications based on STM32L475E MCU and Edge AI

19/09/2013 – 12/07/2018 Naples, Italy

BACHELOR'S DEGREE IN ELECTRONIC ENGINEERING Università degli Studi di Napoli Federico II

Address Corso Umberto I, 40 , 80138 , Naples, Italy | **Website** https://www.unina.it/home | **Final grade** 95/110

19/09/2018 – 19/07/2021 Łódź, Poland

MASTER'S DEGREE IN ELECTRONIC ENGINEERING Lodz University of Technology

Address Stefana Żeromskiego 116, 90-924, Łódź, Poland | **Website** https://p.lodz.pl/en

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

SKILLS

Programming languages

Python / Bash scripting | C++ | C

Tools

Microsoft Office | Linux (Terminal Commands, Bash/Shell) | GIT version control, Linux Command

CONFERENCES & SEMINARS

https://www.coursera.org/

Introduction to Embedded Machine Learning

This course will give you a broad overview of how machine learning works, how to train neural networks, and how to deploy those networks to microcontrollers, which is known as embedded machine learning or TinyML

Link coursera.org/verify/TJFMVXMUFQH8