

Ivan Mazzetta

Date of birth: 04/02/1992

Nationality: Italian

Work Experience

05/2017 – 07/2017

Bway srl – Rome, Italy

Job Title: Internship for Master's degree Thesis

Thesis Title: Engineering of a miniaturized Wearable Sensor for long-time monitoring

Task: Implementation of an existing algorithm in LabView on a ARM M0+ based Microcontroller for application in wearable inertial sensors

06/2010 – 08/2011

L'isola che c'è – Rome, Italy

Job Title: Children's Enterteiner

Task: Daily management of a group of 20+ children during the summer

Education and Training

2014 – 2017

Sapienza University of Rome, Italy

Master's degree: Nanotechnology Engineering with specialization in Electronics and Photonics

Final Mark: 110/110 cum Laude

Thesis Title: Engineering of a miniaturized Wearable Sensor for long-time monitoring

Task: Engineering of an existing algorithm in LabView for the identification of a specific disorder in Parkinson's Disease using wearable sensors.

Patient testing with an STMicroelectronics inertial platform.

Engineering of the hardware and possible energy harvesting solution for long time battery life.

Implementation of the simplified algorithm on a ARM M0+ based microcontroller.

2011 – 2014

Sapienza University of Rome, Italy

Bachelor's degree: Electronic Engineering

Final Mark: 106/110

Thesis Title: Simulation and Characterization of 16 nanometers digital cells

Task: HSpice simulation of leakage and delay effects on various digital circuits in the 16 nanometers CMOS technology.

2006 – 2011

L.S.S. Aristotele of Rome, Italy

High School: Traditional Scientific

Final Mark: 88/100

Research Results and Other

July 2017

SIE 2017, Palermo, Italy

Oral Presentation of the contribution entitled "*Energy Harvesting in Wearable Sensor Networks*" by Mazzetta, Kita, Maule, Irrera, Suppa and Prisco at SIE (Italian Electronics Association) annual meeting in Palermo

July 2017

SIE 2017, Palermo, Italy

Poster Presentation of the contribution entitled "*Wearable Device for the Detection of Electromyography Signals*" by Mazzetta, Gentile, Pessione, Suppa, Zampogna and Irrera at SIE (Italian Electronics Association) annual meeting in Palermo

September 2017

IUNET, Perugia, Italy

Attending the Annual Meeting as co-author of a contribution presented by Prof. Irrera entitled "*Wearable Sensors: Smart Autonomous Systems as a convergence of multiple electronic functions and different ICT technologies*"

Skills and Competencies

Technical Skills

- Good knowledge of C, Python, Matlab and Labview
- Good knowledge of microcontroller programming (in particular Atmel and STMicroelectronics ARM based microcontrollers and their IDE, Atmel Studio and MDK-ARM) and Arduino
- Good knowledge of PSpice and HSpice
- Good knowledge of serial communication protocols (SPI, I2C, UART, Modbus, CAN)
- Basic knowledge of Altium Designer

Competencies

- Inertial platforms and technologies
- Wearable Devices for healthcare
- Surface Electromyography
- Energy Harvesting Technologies (TEG, Vibrational, Solar, RF)
- Embedded Systems (hardware)
- MEMS
- Micromirrors, LC and LED Displays
- Silicon processing techniques (PVD, CVD, Wet and Dry Etching, Lithography)
- Microscopy techniques (SEM, TEM, AFM, STM, NSMM)
- Spectroscopy techniques (XPS, LEED, Auger)

IT Skills

- Windows Operating System (7 and 10)
- Microsoft Office

Languages

Mother Tongue: Italian

Other Language: English (Advanced at British School Group - Rome, Italy)

Licenses

Driving License: B

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Date 19/12/2017

Signature 