



NICOLA ZANATTA

CURRICULUM VITAE



SOFT SKILL

- Autonomy **9/10**
- Self confidence **9/10**
- Flexibility/Adaptability **8/10**
- Resistance to stress **8/10**
- Ability to plan and organize **8/10**
- Managing information **8/10**
- Precision/Attention to details **9/10**
- Learn continuously **9/10**
- Achievement of objectives **9/10**
- Entrepreneurial spirit and initiative **8/10**
- Communication **8/10**
- Problem Solving **8/10**
- Team work **8/10**
- Leadership **8/10**

FOREIGN LANGUAGE SKILLS



MOTHER TONGUE(S): Italian



ENGLISH GOOD	C1	C2	B2	B2	B2
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DIGITAL COMPETENCES

Self-assessment grid

- Information processing **Proficient user**
- Communication **Proficient user**
- Content creation **Independent user**
- Safety **Proficient user**
- Problem solving **Proficient user**

EXPECTATIONS AND FEATURES OF THE DESIRED JOB

INTENTION TO CONTINUE STUDIES: **Yes** / Graduate studies

ECONOMIC SECTOR: **1.** aeronautics, aerospace, shipbuilding / **2.** computer science, data processing and acquisition / **3.** communication and telecommunications

Career Goal

I want to apply the knowledge learned in my studies in electronic engineering working in the design and development of circuit for power electronics.



ACADEMIC STUDIES

PH.D.
2020 - 2024
ONGOING STUDIES



Università degli Studi di PADOVA
Faculty: Ph.D. School in Mechatronics And Product Innovation
Engineering - University of Padova
High-efficiency electronic power converters for extreme fast charging (xfc) stations
Expected graduation date: 2024

MASTER'S DEGREE
2017 - 2020
CERTIFIED TITLE



Università degli Studi di PADOVA
Dipartimento di Ingegneria dell'Informazione
Ingegneria elettronica
LM-29 - 2nd level degree in Electronic engineering
Dissertation/thesis title: Analysis and Efficiency Study of the DAB Converter Topology | Thesis supervisor: CALDOGNETTO TOMMASO | Dissertation/thesis keywords: DAB converter ZVS TPS Switching losses Efficiency
Age at graduation: 24 | Official duration: 2 years
Final degree mark: **109/110**
Graduation date: 20/04/2020

BACHELOR'S DEGREE
2014 - 2017
CERTIFIED TITLE



Università degli Studi di PADOVA
Dipartimento di Ingegneria dell'Informazione
Ingegneria elettronica
L-8 - 1st level degree in Information technology
Dissertation/thesis title: ENERGY HARVESTING FOR WIRELESS ELECTRONICS | Thesis supervisor: TENTI PAOLO
Age at graduation: 22 | Official duration: 3 years
Final degree mark: **106/110**
Graduation date: 19/09/2017

TECHNICAL CERTIFICATE
MONTEBELLUNA
2014

Industrial Vocational School
ITIS Luigi Einaudi, MONTEBELLUNA (TV)
School-leaving examination mark: **84/100**
Kind of secondary school diploma: Italian secondary school diploma
Kind of secondary school attended: Public school



WORK EXPERIENCES

Research collaborator
FONDAZIONE STUDI UNIVERSITARI DI VICENZA
Computer science, data processing and acquisition
PADOVA (PD)
05/2020 - 09/2020

Main activities and responsibilities: Research project on an innovative topology of high-efficiency dc/dc converter for extreme fast-chargers. The converter will be part of a multi-cell 350kW dc/dc converter. Sizing, parametric optimization, techniques for conduction and switching losses reduction, are active parts of the research activity.
Working as: employee collaborator

CAREER FIELD: 1. Engineering and design

DESIRED JOB:

Designer&Developer of circuits for power electronics



Scholastic internship PIEMME IMPIANTI DI PIOVESAN MARCO & C.

Computer science, data processing and acquisition
MONTEBELLUNA (TV)
06/2013 - 07/2013

Main activities and responsibilities: Servicing of air cooling systems, Assembly of PV panels, Installation of security systems.
Employed as: intern/trainee - internship | Company sector: Manufacturing

Scholastic internship ELETTRONIC

Computer science, data processing and acquisition
TREVIGNANO (TV)
06/2012 - 07/2012

Main activities and responsibilities: Assembling and wiring of electrical panels for industrial machines
Employed as: intern/trainee - internship | Company sector: Manufacturing



FOREIGN LANGUAGE SKILLS

DIPLOMAS AND CERTIFICATES

English OLS english test, OLS Online Linguistic Support / Esasmus+, 18 Dec 2018 , **Europass level C1**



INFORMATION TECHNOLOGY SKILLS

OFFICE AUTOMATION

Office Suite: (Highly Specialised) | **Presentation Software:** Microsoft PowerPoint (Advanced) | **Spreadsheets:** Microsoft Excel (Advanced) | **Web Browser:** (Advanced) | **Word Processors:** Microsoft Word (Advanced) , TextMaker (Advanced)

APPLICATION SOFTWARE

CAD - Assisted Design: Altium Designer (Intermediate) , Autodesk Eagle (Foundation) , CST Microwave Studio (Intermediate)

COMPUTER PROGRAMMING

Development Models: PLECS (Advanced) , SPICE (Advanced) | **Markup languages:** HTML (Foundation) , LaTeX (Advanced) | **Programming languages:** Assembly (Intermediate) , C (Advanced) , Java (Advanced) , LabVIEW (Advanced) , LabVIEW FPGA and Real-Time (Advanced) , MATLAB (Advanced) , Python (Advanced) , Simulink (Advanced) , VHDL (Foundation) | **Web Programming:** PHP (Foundation)

SYSTEMS AND NETWORKS MANAGEMENT

Network architecture: (Foundation) | **Operating systems:** Linux (Foundation)

DATA MANAGEMENT

DBMS: MySQL (Foundation)

GRAPHICS AND MULTIMEDIA

Vector graphics editor: Adobe Illustrator (Advanced) , Ipe (Advanced) | **Video Editing and Processing:** Adobe Premiere Pro (Intermediate)

ICT CERTIFICATES

ECDL Full Standard AICA, 15/02/2013



STUDIES AND EXPERIENCES ABROAD

NORWAY
2018

European Union program (Erasmus)

At: NTNU

Place: **Trondheim (Norway)** | Language: English | Duration: 4 (months)

During my stay in NTNU I attended some courses gave me knowledge about: design and prototyping of an energy harvester device for biomedical usage; numerical calculation of Maxwell equations in simulators; satellite technology.



PROFESSIONAL ACCOLADES AND AWARDS

PRIZE
2017

Mille e una lode 2017

The student was awarded a scholarship for outstanding academic performance within the academic year 2017/2018 edition of the 'Mille e una lode' project as one of the best 1000 students enrolled at Università degli Studi di Padova.

PRIZE
2016

Mille e una lode 2016

The student was awarded a scholarship for outstanding academic performance within the academic year 2016/2017 edition of the 'Mille e una lode' project as one of the best 1000 students enrolled at Università degli Studi di Padova.



PUBLICATIONS

JOURNAL ARTICLES
2021

Nicola Zanatta; Tommaso Caldognetto; Giorgio Spiazzi; Paolo Mattavelli, A Two-Stage Isolated Resonant DC-DC Converter for Wide Voltage Range Operation
Review: 2021 IEEE International Conference on Environment and Electrical Engineering an
Publisher: 10.1109/EEEIC/ICPSEurope51590.2021.9584589
ieeexplore.ieee.org/document/9584589

JOURNAL ARTICLES
2021

S. Pistollato, N. Zanatta, T. Caldognetto, P. Mattavelli, A Low Complexity Algorithm for Efficiency Optimization of Dual Active Bridge Converters
Review: Open Journal of Power Electronics
Publisher: OJ-PEL-2020-0100 doi: 10.1109/OJPTEL.2021.3053058
ieeexplore.ieee.org/document/9329137

JOURNAL ARTICLES
2020

Nicola Zanatta, Simone Pistollato, Tommaso Caldognetto, Paolo Mattavelli, Triple-Phase Shift Modulation and Tuning Technique to Improve the Efficiency of the Dual Active Bridge Converter
Review: 2020 AEIT International Annual Conference (AEIT), Catania, Italy, 2020, pp. 1-6
Publisher: doi: 10.23919/AEIT50178.2020.9241157
ieeexplore.ieee.org/document/9241157



TEACHING ACTIVITIES

LESSONS/LECTURES
2021

University of Padova, Vicenza
Laboratory Assistant
Laboratory assistant on analog filters.
Main Professor: Prof. Paolo Mattavelli
Character: Assistant

LESSONS/LECTURES
2021

University of Padova, Vicenza
Laboratory Assistant
LTspice lesson for students of the Industrial Electronics course concerning a buck circuit with voltage/current controls.
Laboratory assistant on buck board experiences.
Main Professor: Prof. Paolo Mattavelli
Character: Assistant



ATTACHMENTS

Ingegneria Elettronica

Master's Degree in Ingegneria Elettronica at the University of Padova.
bestr.it/award/show/PhKJ61uBRnSl_ECocQqAEw?!...

International Mobility

International Mobility Badge
bestr.it/award/show/Ela9_wcCQKK93Fm0z-zx1w?In...

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