

Stella Canè

Curriculum Vitae

PERSONAL INFORMATION

CONTACTS



FOREIGN LANGUAGE SKILLS

Mother tongue: **Italian**



English Advanced	C1	C1	C1	C1
Spanish Limited	A2	A2	A2	A2

INFORMATION TECHNOLOGY SKILLS

CAD Software: Ptc Creo, Siemens NX

Programming Languages: Fortran, C++

CFD Software: OpenFoam

FEM Analysis software: Ansys

Matlab & Simulink

WORK EXPERIENCES



Curricular internship

FEV ITALIA S.R.L.

BOLOGNA, BO
02/2021 - 09/2021

Main activities and responsibilities: Definition and calibration of a Simulink model representative of a light commercial vehicle with diesel-hybrid powertrain and EU7 oriented exhaust after treatment system with electrically heated catalyst (EHC). Development and testing of an EHC predictive control function aimed to reduce cold start pollutant emissions.
Number of hours: 600 | Company sector: R&D and patents

Formula SAE

Team member

UNIBO MOTORSPORT

BOLOGNA, BO
09/2019 - 12/2020

Main activities and responsibilities: Study of the lay-up, simulation and manufacturing of a carbon fiber steering support. Simulation of different lay-up solutions for the electric car monocoque and lamination at Automobili Lamborghini Spa. Design of the rear chassis cover for the electric car.

Volunteer activity | Company sector: Engineering and design

Curricular internship

ALMA MATER

STUDIORUM

BOLOGNA, BO
03/2019 - 07/2019

Main activities and responsibilities: Study of the physical principle underlying the operation of dielectric elastomer transducers (generators, actuators, sensors). Realization and characterization of conductive elastomeric membranes based on silicone and carbon black to be used for the manufacturing of electrodes for dielectric elastomer transducers.
Number of hours: 150 | Company sector: R&D and patents

EDUCATION



PH.D.

2021 - 2024

Alma Mater Studiorum - Università di Bologna

PhD Program in Automotive Engineering for Intelligent Mobility

Curriculum: Energy Systems, Powertrains, Vehicle Performance
Research topic: Predictive Control of CO2 and Pollutant Emissions of Hybrid Vehicles
PhD Cycle: 37th

Master's Degree

2019 - 2021

Alma Mater Studiorum - Università di Bologna

Second Level Degree in Mechanical Engineering

Thesis title: Development of a Predictive Control Function for a Plug-in Hybrid Electric Vehicle with Electrically-heated Catalyst
Thesis subject: Modeling and Control of Internal Combustion Engines and Hybrid Propulsion Systems
Graduation date: **08/10/2021** | Final degree mark: **110/110 cum laude**

Bachelor's Degree

2016 - 2019

Alma Mater Studiorum - Università di Bologna

First Level Degree in Mechanical Engineering

Thesis Title: Dielectric Elastomer Transducers: Manufacturing and Experimental Characterization
Thesis subject: Applied Mechanics
Graduation date: **03/10/2019** | Final degree mark: **110/110 cum laude**

Secondary School

Diploma

2011 - 2016

Classical High School

Liceo Classico Giulio Cesare, Rimini (RN)
School-leaving examination mark: 100/100 cum laude

FOREIGN LANGUAGE SKILLS



Diplomas and certificates

English: First Certificate of English, Cambridge Assessment English
Date: 04/2015
Europass Level C1