



# FRANCESCO SEMPRUCCI

## CURRICULUM VITAE



Date of birth / 27/10/1999 Age / 24  
Place of birth / RIMINI (RN)  
Nationality/ citizenship / Italy  
Via Variano, 23, 47922 RIMINI (RN)  
Via Variano, 25, 47922 RIMINI (RN)  
Driving licence / B  
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### FOREIGN LANGUAGE SKILLS

MOTHER TONGUE(S): Italian



ENGLISH GOOD	C1	B2	B2	B2	B2
SPANISH LIMITED	A1	A1	A1	A1	A1

### DIGITAL COMPETENCES

**DigComp**  
Information and data literacy **Independent user**  
Communication and collaboration **Independent user**  
Digital content creation **Independent user**  
Safety **Basic user**  
Problem solving **Independent user**

### EXPECTATIONS AND FEATURES OF THE DESIRED JOB

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

ECONOMIC SECTOR: **1.** education, training, research and development / **2.** mechanical engineering and precision engineering / **3.** aeronautics, aerospace, shipbuilding

CAREER FIELD: **1.** R&D and patents / **2.** Manufacturing / **3.** Engineering and design

PREFERRED DISTRICT TO WORK IN: **1. ABROAD** / **2. RIMINI**

AVAILABILITY FOR BUSINESS TRAVELS: **Yes, including relocation**

AVAILABILITY TO RELOCATE ABROAD: **Yes, even in non-European countries**

### Career Goal

*I would like to utilize my pieces of knowledge and even acquire more of those in my preferred field of study like composite materials.*



### ACADEMIC STUDIES

#### MASTER'S DEGREE 2021 - 2024



Alma Mater Studiorum - Università di Bologna  
Scuola di Ingegneria e Architettura

#### Corso di Laurea Magistrale in Ingegneria Meccanica

LM-33 - 2nd level degree in Mechanical engineering

Dissertation/thesis title: Simulation and validation of numerical models for the assessment of the crashworthiness of natural fiber composites | Dissertation/thesis subject: Tecnologie speciali e dei materiali compositi LM | Thesis supervisor: Lorenzo Donati | Dissertation/thesis keywords: Crashwothiness, lino, materiali compositi, fibre naturali, ESI VPS

Age at graduation: 24 | Official duration: 2 years

Final degree mark: **110/110 cum laude**

Graduation date: 14/03/2024

#### BACHELOR'S DEGREE 2018 - 2021 CERTIFIED TITLE



Alma Mater Studiorum - Università di Bologna  
Scuola di Ingegneria e Architettura

#### INGEGNERIA MECCANICA

L-9 - 1st level degree in Ingegneria industriale

Dissertation/thesis title: Caratterizzazione di materiali compositi tramite prove di compressione di lastre piane | Dissertation/thesis subject: TECNOLOGIA MECCANICA A | Thesis supervisor: DONATI LORENZO

Age at graduation: 21 | Official duration: 3 years

Final degree mark: **107/110**

Graduation date: 15/07/2021

#### SCIENTIFIC CERTIFICATE RIMINI 2018

'A. SERPIERI', RIMINI (RN)

School-leaving examination mark: **98/100**

Kind of secondary school diploma: **Italian secondary school diploma**



### WORK EXPERIENCES

#### Intern UNIBO FORLÌ (FC) 07/2023 - 01/2024

**Main activities and responsibilities:** Several activities have conducted during the experience. I went through all a research experience, from the literature review, to the simulation, throughout a full experimental campaign.

**Acquired skills and achieved objectives:** I learnt how to make a literature review, how to laminate, cure and cut pre-preg composite materials, how to conduct characterisation and crash tests, how to do some data analysis and how to work with a crash simulative software

Employed as: intern/trainee - undergraduate internship | Number of hours: 300 | Company sector: Engineering and design

**Intern**  
**UNIVERSIDADE FEDERAL DE SANTA CATARINA**  
*Aeronautics, aerospace, shipbuilding*  
JOINVILLE (BRAZIL)  
10/2023 - 12/2023

**Mechanical Engineering Programme Tutor**  
**UNIVERSITÀ DEGLI STUDI BOLOGNA**  
FORLÌ (FC)  
10/2021 - 10/2023

**Intern**  
**UNIBO**  
FORLÌ (FC)  
02/2021 - 04/2021

**Collaboratore amministrativo**  
**UFFICIO DEMANIO COMUNE DI RIMINI**  
*Tourism*  
RIMINI (RN)  
06/2017 - 08/2017

**Main activities and responsibilities:** Consultancy activities for the University's Naval Teams, hand lay-up activities  
**Acquired skills and achieved objectives:** I learnt how to work with glass fibres and improved my teamwork prowess while working in another language  
Employed as: intern/trainee - undergraduate internship | Number of hours: 300 | Company sector: Engineering and design

**Main activities and responsibilities:** The Tutor acts as an interface between the students and the Degree Programme to offer a tangible reference for the teaching activities, to collect information and comments, as well as to receive any claims or feedback about existing critical conditions and, in general, the student's requests regarding logistic and organizational aspects or other issues. He/she has also the function of providing personalized support to learning, with the objective of maintaining contact with students who may for various reasons (for example, job activities) encounter major difficulties at tests/exams and of setting up clear programming for their studies and career. The Tutor participates in the orientation activities, provides support to the Degree Programme Coordinator in the management of students' practices, and collaborates in the activities for the surveying of students' opinions about the teaching activities.  
**Acquired skills and achieved objectives:** I learned how to talk and relate with professors, administrative personnel, and students, even foreigners while collaborating and acting as a sort of link among students, professors, and university personnel.  
Employed as: intern/trainee - consulting/collaboration

**Main activities and responsibilities:** Hand lay-up, crash tests, data analysis  
**Acquired skills and achieved objectives:** I learnt how to work pre-preg composite materials, how to conduct some experimental tests and how to do some data analysis  
Employed as: intern/trainee - undergraduate internship | Number of hours: 100 | Company sector: Engineering and design

**Main activities and responsibilities:** Revisione concessioni demaniali ai vari proprietari  
**Acquired skills and achieved objectives:** Precisione e tempestività nella revisione e nel controllo delle varie concessioni  
Employed as: intern/trainee - undergraduate internship



## INFORMATION TECHNOLOGY SKILLS

### OFFICE AUTOMATION

**Office Suite:** (Intermediate) | **Presentation Software:** Microsoft PowerPoint (Foundation) | **Spreadsheets:** Microsoft Excel (Intermediate) | **Web Browser:** (Intermediate) | **Word Processors:** Microsoft Word (Intermediate)

### APPLICATION SOFTWARE

ESI PAM CRASH (Advanced) | **CAD - Assisted Design:** SolidWorks (Intermediate) | **CAE Software:** AnSYS (Foundation) | **Data Visualization:** MATLAB (Foundation) | **Numerical analysis:** Mathcad (Foundation)

### GRAPHICS AND MULTIMEDIA

(Foundation)



## STUDIES AND EXPERIENCES ABROAD

**BRAZIL**  
2023

**Other experience acknowledged by the course of study (Learning-by-doing activities)**  
**At:** Universidade Federal de Santa Catarina  
Place: **Joinville (Brazil)** | Language: English | Duration: 2 (months)  
I spent 50 days at the Universidade Federal de Santa Catarina

(UFSC), Joinville campus (Brazil), carrying out learning-by-doing activities linked to composite materials in a nautic environment.

**LATVIA**  
2022

**European Union program (Erasmus+)**

**At:** Riga Technical University

Place: **Riga (Latvia)** | Language: English | Duration: 5 (months)

I attended one semester of lectures for my Master's Degree at Riga Technical University, Latvia



## ADDITIONAL INFORMATION

Other skills:

-Composite coupons manufacturing

-Materials characterisation tests according to ASTM D3039/D3039M, ASTM D3410/D3410M, ASTM D3518/D3518M, ASTM D5528/D5528M, ASTM D7039/D7039M