

PERSONAL INFORMATION **Francesco Saccani**

Gender | Date of birth | Nationality

PREFERRED JOB **R&D Computer Engineer**

## WORK EXPERIENCES

Mar 2021 - Dec 2021 **R&D Software Engineer**

OCME s.r.l., Via del Popolo, 20/A - PARMA (PR), Italy

- Research and development in the field of autonomous laser guided vehicles (LGV).
- Development of real-time web applications using the React + Redux + .NET technology stack (languages: TypeScript, JavaScript and C#).
- Development, maintenance and testing of .NET applications (language: C#).
- Development of software and algorithms for traffic management of a fleet of autonomous vehicles (language: C++).
- Use of Container technologies (Docker), during the development of software applications.

**Sector** Engineering and design: computer science, data processing and acquisition**Employed as** office worker - fixed-length contractJul 2020 - Feb 2021 **Computer Engineer**

Sidel, Via la Spezia, 241/A - Parma (PR), Italy

Design and implementation of a software system for the automation of the industrial machinery development process through the use of parallel and distributed computing techniques and Artificial Intelligence algorithms. Languages used: Python, C++, CUDA.

**Sector** Engineering and design: computer science, data processing and acquisition**Employed as** intern/trainee - undergraduate internshipJul 2018 - Oct 2018 **Undergraduate Internship**

University of Parma - Department of Engineering and Architecture

Design and implementation of a system for the collection and classification (using Machine Learning techniques) of citizens' reports via chatbots and a web interface for the administration of the municipality of Montecchio Emilia (RE). Languages used: Python, PHP.

**Sector** Engineering and design: computer science, data processing and acquisition**Employed as** intern/trainee - undergraduate internshipOct 2017 - Oct 2018 **Webmaster**

Tennis Della Bassa a.s.d, Parma (PR), Italy

Design of a website for a sports club and a system for managing online reservations and payments for sports fields. Knowledge of internet-oriented technologies, design and management of MySQL databases, server-side programming in PHP, creation of the user interface in HTML/CSS/JavaScript.

**Sector** Engineering and design: computer science, data processing and acquisition**Employed as** intern/trainee - undergraduate internship

## EDUCATION AND TRAINING

- 2021-Present **Ph.D. in Information Technology** EQF level 8  
University of Parma - Department of Engineering and Architecture  
**Main Topic** Intelligent distributed processing systems for precision agriculture  
**Ph.D. Cycle** 37  
**Expected Graduation Date** 2025
- 2018-2021 **Master Degree in Computer Engineering** EQF level 7  
University of Parma - Department of Engineering and Architecture  
Specific field of the degree course: Internet-oriented Information Systems  
**Thesis** Title: Evolutionary Algorithms for Automated Design of Industrial Machinery | Thesis supervisor: Michele Amoretti | Keywords: Machine Learning, Simulation, CUDA, C++, Python  
**Final degree mark** 110/110 cum laude  
**Graduation** Date: Mar 8, 2021 | Age at graduation: 24 | Official duration: 2 years
- 2015-2018 **Bachelor Degree in Computer, Electronics and Telecommunications Engineering** EQF level 6  
University of Parma - Department of Engineering and Architecture  
**Thesis** Title: Classification of citizen reports by text analysis and object recognition | Thesis supervisor: Tomaiuolo Michele | Keywords: Machine Learning, Chatbot, Restful API, Database, PHP Framework  
**Final degree mark** 110/110 cum laude  
**Graduation** Date: Oct 12, 2018 | Age at graduation: 21 | Official duration: 3 years
- 2010-2015 **Scientific High School Diploma**  
Attilio Bertolucci High School, Parma  
School-leaving examination mark: 88/100

## TEACHING ACTIVITIES

- Oct 2022-Feb 2023 **Tutor**  
University of Parma - Department of Engineering and Architecture  
**Course** Logical Networks - Embedded Systems Laboratory  
**Main Professor** Stefano Caselli
- Nov 2022 **In-depth Seminar**  
University of Parma - Department of Engineering and Architecture  
Hands-on tutorial on the React framework  
**Course** Internet Technologies  
**Main Professor** Michele Amoretti
- Oct 2019-Dic 2019 **Tutor**  
University of Parma - Department of Engineering and Architecture  
**Course** Fundamentals of Computer Science and Programming Lab  
**Main Professor** Michele Tomaiuolo

## PROFESSIONAL TITLES

- 25/07/2022 **State Examination**  
Ingegnere dell'Informazione (Sez. A)

## INFORMATION TECHNOLOGY SKILLS

**Office Automation** Office Suite (Advanced) | Spreadsheets (Advanced) | Web Browser (Highly Specialised) | Word Processors (Advanced)

**Application Software** CAD - Assisted Design (Foundation)

**Computer Programming** Build Automation: Docker (Advanced) | Development Models: Distributed systems (Advanced) | Integrated development environments (IDE): Visual Studio Code (Highly Specialised) | Javascript libraries: React.js (Highly Specialised) | Markup languages: CSS (Advanced) | HTML (Advanced) | Mobile Application Development (Advanced) | Parallel computing (Advanced) | CUDA (Advanced) | Programming languages: Assembly (Foundation) | C (Intermediate) | C# (Advanced) | C++ (Intermediate) | Haskell (Foundation) | Java (Advanced) | JavaScript (Advanced) | Objective-C (Foundation) | Python (Advanced) | Rust (Highly Specialised) | SQL (Advanced) | SystemVerilog (Foundation) | TypeScript (Advanced) | Real-Time Systems (Intermediate) | Web Programming: Apache HTTP Server (Advanced) | Node.js (Intermediate) | PHP (Advanced)

**Systems and Networks Management** Embedded systems (Advanced) | IoT (Advanced) | Operating systems: Android (Advanced) | Linux (Highly Specialised) | Microsoft Windows (Intermediate)

**Data Management** Big Data (Intermediate) | Blockchain (Foundation) | DBMS: Microsoft SQL Server (Intermediate) | MongoDB (Foundation) | MySQL (Advanced) | SQLite (Advanced)

**Graphics and Multimedia** Audio Editing and Processing (Advanced) | Raster graphic editor (Intermediate) | Vector graphics editor (Intermediate) | Video Editing and Processing (Intermediate)

**Security** Cryptography (Advanced) | Firewall (Intermediate) | Penetration test (Foundation)

## PERSONAL SKILLS

**Mother tongue** Italian

**Other languages**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

**Communication skills** Good communication skills. Excellent ability to work in team. Clarity and precision.

**Organisational / managerial skills** Excellent organizational and problem solving skills. Ability to manage complex projects and carry out tasks independently.

**Digital competences**

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)

**Other skills** Experience as a sound engineer for small and medium sized concerts.

**Driving licence** B (with own car)