

## PERSONAL INFORMATION

**Marco Sorge**

 Via Emilia all'Ospizio, 4 - 42122 - Reggio Emilia (RE) - Italy

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 marco.sorge@unimore.it

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Sex Man | Date of birth 18/03/1989 | Nationality Italian

## WORK EXPERIENCE

Since 11/2017

**Research Fellow**

Università degli Studi di Modena e Reggio Emilia - Dipartimento di Scienze e Metodi dell'Ingegneria  
Via Giovanni Amendola, 2 - 42122 - Reggio Emilia (RE) - Italy

- Development of mechatronic technologies for automation systems.

**Business or sector** Research in the field of industrial automation.

05/2017 - 09/2017

**Internship**

Elettric80 S.p.A. - Via Guglielmo Marconi, 23 - 42030 - Viano (RE) - Italy

- Definition of sensors and development of algorithms for the detection of ground irregularities and wear for predictive maintenance purposes.

**Business or sector** Industrial automation, logistics.

01/2014 - 10/2014

**Internship**

Isotta Fraschini Motori S.p.A. - Viale Francesco De Blasio, Z.I. - 70123 - Bari (BA) - Italy

- Design and management of corporate databases concerning proposals for waivers/deviations and reports of failure from the field.

**Business or sector** Mechanical Engineering, Marine Engines.

## EDUCATION AND TRAINING

12/2014 - 10/2017

**Master's degree in Mechatronic Engineering, final mark: 106/110**

Università degli Studi di Modena e Reggio Emilia - Dipartimento di Scienze e Metodi dell'Ingegneria  
Via Giovanni Amendola, 2 - 42122 - Reggio Emilia (RE) - Italy

- Study and design of mechatronic systems and control systems.
- Thesis: "Predictive maintenance in practice for laser guided vehicles"

10/2008 - 11/2014

**Bachelor's degree in Mechanical Engineering, final mark: 108/110.**

Università degli Studi di Catania - Dipartimento di Ingegneria Industriale  
Viale Andrea Doria, 6 - 95125 - Catania (CT) - Italy

- Study and design of mechanical systems and operation of industrial plants.
- Thesis: "Study of the stress concentration factor by the means of the Thermographic Method"

03/2013 - 12/2013 **Training course for technical specialist in mechatronics.**  
 Università degli Studi di Bari "Aldo Moro"; Politecnico di Bari; Consorzio MEDIS; Centro Ricerche FIAT

- Development, design and testing of mechatronic components in the automotive and the means of production.
- Focusing on the aspects related to structural calculation, materials technology, design of experiments, laser technologies, project management.

09/2003 - 06/2008 **Scientific Maturity - National Plan for Computer Science, final mark: 100/100**  
 Liceo Scientifico Statale "Principe Umberto" - Via Chisari, 8 - 95123 - Catania (CT) - Italy

- Focusing on mathematics and physics.
- Basics of programming.

**PERSONAL SKILLS**

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

**Communication skills**

- Ability to study and work in team, developed over the years of study at the University (especially while working for group projects) and during the internship held in Isotta Fraschini Motori.
- Ability to accurately give and ask for information.
- Ability to easily relate with people of different opinions.

**Organisational / managerial skills**

- Ability to organize the activities of work and study entrusted to me.
- Knowledge of business dynamics, acquired during the internship in Isotta Fraschini Motori, held in different departments.

**Job-related skills**

- Static tension and dynamic oscillating tests conducted on Instron and Zwick test machines.
- Acquisition and processing of thermal images by FLIR camera and acquisition software ThermaCAM Researcher.
- Programming of Microchip microcontrollers, by the means of MPLAB X IDE and XC8 compiler.

**Digital competence**

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

- Very good knowledge of the main operating systems (Windows, GNU/Linux, Mac OS X) and the Office Suites.
- Very good knowledge of LabVIEW software application (Certified LabVIEW Associate Developer).
- Good knowledge of B&R Automation Studio, Beckhoff TwinCAT 2, MATLAB/Simulink, SolidWorks software applications and C, Python, Visual Basic and Structured Text programming languages.

Driving licence B

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