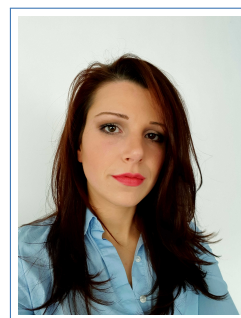


# Elisabetta Cataldi

## Curriculum Vitae

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### Info

Born on the September 02, of 1988 in Cassino (FR,Italy)  
Citizenship Italian

### Actual Position

Mar/2018 - **Freelancer**, Software Engineer, Engineering Design, in Cervaro.  
until now Italy

### Most relevant skills

Fields Engineering application, Electrical application, Automation and Control, WebApp and Software development, Android and iOS Mobile Development.  
Languages Ajax, Adruino, C#, C, C++, CSS, Django, HTML, JAVA, JavaScript, JQuery, L<sup>A</sup>T<sub>E</sub>X, MySQL, PHP (Laravel), PLC, Python, REST Api, Raspberry Pi, Visual Basic, NodeJS  
Operating system Unix, Windows, Windows Server  
Softwares AutoCad e Autocad Electrical, Blender, Eclipse IDE, FPGA, Gimp, Lab View, Matlab e Simulink, micro-controller programmer(PIC), Office Suite, Photoshop, Robotics Operating System (ROS), Visual Studio, V-REP.

### Experience

#### Work

Gen/2017 **Research activity on interaction control**, *Università degli Studi di Cassino e del Lazio Meridionale*, Cassino, Italy.  
-Dec/2018

Gen/2014 **PhD: Floating-base arm equipped system: kinematic dynamic control and planning**, *Università degli Studi di Cassino e del Lazio Meridionale*, Cassino, Italy.  
-Dec/2016

Mar-Jun 2016 **Research activity on the development of a planner for aerial-manipulation vehicle, and the experimental results on an admittance control on a fully-actuated aerial platform**, , at the Antonio Franchi group press the LAAS-CNRS, Toulouse, France.

The research activity has been involved in two topics: the first one on the development of a planner with the challenge to integrate the capabilities of the motion planning with the reactivity of the inverse kinematic control; a second topic has been the realization of interaction with the environment of a fully-actuated platform (built by the Antonio Franchi team), both the topic have been done through the European Project Aeroarms.

- June 2015 **Research activity on the development of an impedance control for quadrotors with arm-equipped**, *CATEC-Centro Avanzado de Tecnologias Aeroespaciales*, Seville, Spain.  
The experiments have been made to effort an impedance control for quadrotors with an arm of 6-DOF attached, where the interaction with the environments has been required, through the European Project Arcas.
- Jun -Dec/2013 **Adaptive control for rigid body serial chain on floating base**, *Università degli Studi di Cassino e del Lazio Meridionale*, Cassino, Italy.  
The research activity has been the development of an adaptive control for vehicle manipulator system.
- Nov 2012 **Research activity on the development of an adaptive control for quadrotors**, *Max Planck Institute for Biological Cybernetics*, Tübingen, Germany.  
The experiments have been made to effort an adaptive control for quadrotors on the basis of parameters uncertainties.
- Mar - Oct/2011 **Approval of equipment for the electric lines protection (smart grid)**, *CPT Engigneering*, Patrica, Italy.
- Gen - Mar/2011 **Design of plant for the generation of green power electricity**, *P.N.O.*, Marina di Minturno, Italy.
- Jul 2006 **Stage at the chemistry laboratory of the SKF**, *SKF srl*, Cassino, Italy.

### Teaching activity

- Jun 2017 **Exam committee member of automation and control**, *at the Univeristà degli Studi di Cassino e del Lazio Meridonale*, Laurea Magistrale in Ingegneria Informatica.
- Sep-Dec 2016 **Course of System Theory exercises**, *at the Univeristà degli Studi di Cassino e del Lazio Meridonale*, Laurea Magistrale in Ingegneria Informatica.
- Sep-Dec 2015 **Course of System Theory exercises**, *at the Univeristà degli Studi di Cassino e del Lazio Meridonale*, Laurea Magistrale in Ingegneria Informatica.
- Sep-Dec 2014 **Freshman basic course.**, *at the Univeristà degli Studi di Cassino e del Lazio Meridonale*.
- Sep 2013 **Basic course on MatLab and Simulink**, *at the Univeristà degli Studi di Cassino e del Lazio Meridonale*.

### Education

- Jun 2017 **PhD in Automation and Control**, *Università degli studi di Cassino e del Lazio Meridionale*, Cassino, Italia.  
Title: Floating-base arm equipped system: kinematic dynamic control and planning
- Jul 2015 **Summer school SIDRA 2015**, *Società Italiana Docenti e Ricercatori in Automatica*, Bertinoro, Italia.  
Robot Control and Underwater robotics.
- Jul 2014 **Summer school SIDRA 2014**, *Società Italiana Docenti e Ricercatori in Automatica*, Bertinoro, Italia.  
Introduction to the Analysis and Control of Nonlinear Systems and Unmanned Aerial Vehicles.
- Jul 2013 **Summer school SIDRA 2013**, *Società Italiana Docenti e Ricercatori in Automatica*, Bertinoro, Italia.  
System Biology and Vehicle Dynamics Control.

- 2010-20/02/2012 **Master degree on Electrical Engineering**, *Università degli studi di Cassino e del Lazio Meridionale*, Cassino, Italia.  
Automation and industrial production, thesis on Adaptive control for quadrotors, with vote 102/110.
- 2007-14/07/2010 **Degree on Electrical Engineering**, *Università degli studi di Cassino e del Lazio Meridionale*, Cassino, Italia.  
Thesis on the realization of an automatic bench trial to verify the mono-phase motors eccentricity, with vote 100/110.
- 2002-2007 **High school at the Istituto Tecnico Industriale**, *Istituto Tecnico Industriale E.Majorana*, Cassino, Italia.  
Chemistry specialization, with vote 82/100.

## Foreign Languages

Italian mother tongue  
Auto-evaluation CEFR (C2 the maximum value)

		Understanding		Listening		Reading
		Listening	Reading	Interaction	Production	
English	Well	<i>C2</i>	<i>C2</i>	<i>C1</i>	<i>C1</i>	<i>C1</i>
Spanish	Well	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>

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