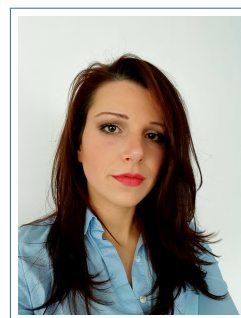


Elisabetta Cataldi

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, Arduino, C#, C, C++, CSS, Django, HTML, JAVA, JavaScript, JQuery, L^AT_EX, MySQL, NodeJs, PHP (Laravel), PLC, Python, REST Api, Raspberry Pi, React, React Native, Visual Basic
Operating system Unix, Windows, Windows Server
Software AutoCad e Autocad Electrical, Blender, Eclipse IDE, FPGA , Gimp, Lab View, Matlab e Simulink, micro-controller programmator(PIC), Office Suite, Photoshop, Robotics Operating System (ROS), Visual Studio, V-REP.

Most relevant projects

AR An application for Andorid has been developed, where the users can see some historical points of interest of the Napoli gulf, thanks to the use of the **augmented reality** and the GPS position. The users can also see or hear some multimedia contents.
AR An application for Andorid/IOS has been developed with the purpose to help the people to add some furniture elements in a room helping to *see* the potential result, then an **augmented reality app** has been developed.
NodeJs The **server** has been developed with the **NodeJS runtime** with the help of the database MySql, in detail the server has been installed on a PC Linux based. In the end the server has been used to host the back-end and the front-end of a website and at the same time as a restApi for the related mobile app for both Android/IOS.
Django A **server** has been developed in **Django**, a **Python-based** free and open-source web framework. The choice of Django has been taken to the facilities to use some related software Python based, with the purpose to have a portal able to be used as industrial planner scheduler.
Messenger A NodeJs server has been used to create from scratch a **instant live messaging chat** broadcasting the messages simultaneity.

Video chat A NodeJs server has been used to create a **video-chat** where the users are able to share the video and/or audio peer to peer, or one to many.

OCR The project main purpose is the recognition of the personal information by the scan of a document, then a **OCR (Optical character recognition)** program has been developed. To achieve this topic a software written in Python has been done, with the help of the library Tesseract OCR.

Experience

Work

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

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

Mar-Jun **Research activity on the development of a planner for aerial-manipulation**
2016 **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 (build 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 quadro-**
tors 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 **Adaptive control for rigid body serial chain on floating base**, *Università degli*
-Dec/2013 *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 - **Approval of equipment for the electric lines protection (smart grid)**, *CPT*
Oct/2011 *Engigneering, Patrica, Italy.*

Gen - **Design of plant for the generation of green power electricity**, *P.N.O., Marina*
Mar/2011 *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 Università degli*
Studi di Cassino e del Lazio Meridionale, Laurea Magistrale in Ingegneria Informatica.

- Sep-Dec 2016 **Course of System Theory exercises**, at the *Università degli Studi di Cassino e del Lazio Meridionale*, Laurea Magistrale in Ingegneria Informatica.
- Sep-Dec 2015 **Course of System Theory exercises**, at the *Università degli Studi di Cassino e del Lazio Meridionale*, Laurea Magistrale in Ingegneria Informatica.
- Sep-Dec 2014 **Freshman basic course.**, at the *Università degli Studi di Cassino e del Lazio Meridionale*.
- Sep 2013 **Basic course on MatLab and Simulink**, at the *Università degli Studi di Cassino e del Lazio Meridionale*.

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	C2	C2	C1	C1	C1
Spanish	Well	C2	C2	C2	C2	C2

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