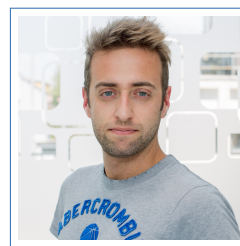


Nicolò Genesio

Curriculum Vitae

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Info

Birth 15/07/1991 (Finale Ligure)
Citizenship Italian
Driving B
License
LinkedIn it.linkedin.com/in/nicogene
Skype live:nicogene
GitHub <https://github.com/Nicogene>
Personal Site <https://nicogene.github.io/>

Professional profile

Robotics/Software engineer

My greatest interest lies in technology, especially the one applied to improve the life of human beings. During my work experience, I nourished the passion for computer programming and software design applied to state-of-the-art robots. Moreover, I was lucky enough to be involved in the design, development, and maintenance of the YARP middleware, currently employed in the iCub and R1 robots.

I possess good experience in computer vision, robotics, GUI design, and communication protocols. My favourite programming language is the C++, however I have also familiarity with scripting languages such as Matlab, Python, and Lua.

I experienced programming on all the main operating systems. In my work experience, I acquired good teamwork skills and commitment to the assigned tasks.

Skills

Informatics

Languages **Good knowledge:** C, C++11, Latex.
Intermediate knowledge: Java, Matlab, CMake.
Basic knowledge: Lua, NI LabView, SQL, JSP, VB, HTML, Python.

Platforms Linux, Windows, macOS.

Tools Qt creator, wxWidgets, VS2010-19, Clion IDE, OpenCV, PCL, YARP, Git, Office suite, Matlab, NI LabView, Swig.

Engineering

Topics **Good knowledge:** computer vision, robotics, software design.
Intermediate knowledge: machine learning, web application development, human computer interaction.
Basic knowledge: Electrotechnology, bioinformatics, mathematics, physics, biomedical instrumentation, chemistry and biochemistry.

Experience

Work

- from 10/2016 to present **Junior Engineer @ iCub Facility**, *Istituto Italiano di Tecnologia*, Genova, Italy.
I participated to the development and the maintenance of [YARP](#) middleware, becoming one of its top [contributors](#). Moreover, I dealt with the FSM design using [rFSM](#), and I implemented a set of tools for FSM debugging ([rfsmTools](#)). I contributed to several repositories such as [icub-main](#) and [RTF](#), dealing with bug fixing and various enhancements. During this experience I acquired good familiarity with GUI design, communication protocols and distributed systems. I have been also involved in a commercial project (protected by n.d.a) from which I learned how to deal with a large international company as a customer. Finally, I participated also to formation activities such as [Easy Peasy Robotics 2017](#) and [VVV school 2018](#); in both cases I held the lesson, with relative hands-on about YARP middleware.
- from 02/2016 to 09/2016 **Support Engineer @ iCub Facility**, *Istituto Italiano di Tecnologia*, Genova, Italy.
I worked on the humanoid robot iCub, in particular I dealt with the design of the C++ module ([Robust-View-Graph-SLAM](#)) that computes the 3D map of the scene using the images acquired from the eyes(cameras).
- from 04/2015 to 10/2015 **Internship @ iCub Facility**, *Istituto Italiano di Tecnologia*, Genova, Italy.
I worked on my Master thesis project supervised by Prof. Lorenzo Natale and Prof. Fabio Solari. My goal was to build a system able to classify the scene based on the traversability of each region using the 3D data acquired by the structured light depth sensor ASUS Xtion Pro Live.
- from 03/2013 to 10/2013 **Internship @ PSPC lab**, *Università degli studi di Genova*, Genova, Italy.
I worked in the PSPC lab under the supervision of Prof. Fabio Solari for my bachelor thesis project. This project consisted on creating a *gaze-tracker* C++ program, using OpenCV and a regular web camera.

Education

- 10/2018 **Modern C++**, *KDAB*, Genova, Italy.
I participated to a three-day course about modern c++ held by [KDAB](#). This course talked about the novelties introduced by c++11-14-17.
- from 11/2015 to 01/2016 **Java Programming Course**, *Azienda Sicura srl*, Milano, Italy.
I participated to the Java Programming Course funded by [Formatemp](#). During this course I learnt how to build java and web applications. I experienced in using some tools as Eclipse J2EE, Apache Tomcat and Oracle DB.
- from 10/2013 to 10/2015 **Master Degree in Bioengineering**, *Università degli studi di Genova*, Genova, Italy.
Curriculum *Neuroengineering and Bio-ICT*, 110/110 cum laude.
- from 09/2010 to 10/2013 **Bachelor Degree in Biomedical Engineering**, *Università degli studi di Genova*, Genova, Italy.
108/110.
- from 2006 to 2010 **Diploma Liceo Scientifico**, *Liceo scientifico A.Issel*, Finale Ligure, Italy.
100/100 cum laude.

Languages

Self-assessment European level [CEFR](#) (C2 maximum evaluation)

		Understanding		Speaking		Writing
		Listening	Reading	Interaction	Production	
Italian	Mother tongue	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>
English	Intermediate	<i>B2</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>
French	Basic	<i>B1</i>	<i>B1</i>	<i>B1</i>	<i>B1</i>	<i>B1</i>

Certificates

- from 05/2013 to 05/2015 **CLAD - NI Certified LabVIEW Associate Developer**, *National Instruments*, Licenza 100-313-2906.
- 05/2007 **Preliminary English Test(PET)**, *University of Cambridge*, Licenza 100/2031/7.
- 05/2008 **B1 DELF - Diplôme D'Études En Langue Française**.