Nicolò Genesio

Curriculum Vitae

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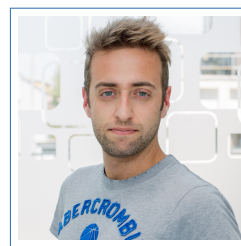
Info

Birth	15/07/1991 (Finale Ligure)
Citizenship	Italian
Driving License	B
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 enought 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 Technician @ iCub Facility**, *Istituto Italiano di Tecnologia*, Genova, Italy.
I partecipated 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 internatial company as a costumer. Finally, I partecipated 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 Technician @ 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 partecipated to a three-day course about modern c++ held by KDAB. This course talked about the novelties introducted 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	*C2*	*C2*	*C2*	*C2*	*C2*
English	Intermediate	*B2*	*B2*	*B2*	*B2*	*B2*
French	Basic	*B1*	*B1*	*B1*	*B1*	*B1*

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**.