Nicolò Genesio

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Info

Birth	15/07/1991 (Finale Ligure)
Citizenship	Italian
LinkedIn	https://www.linkedin.com/in/nicogene
Skype	live:nicogene
GitHub	https://github.com/Nicogene
Personal Site	https://nicogene.github.io/

Professional profile

Robotics/Software engineer

Technology is my greatest interest, especially if applied to improve the life of human beings. My work experience is mainly focused on computer programming and software design applied to state-of-the-art robots. Despite this, working in robotics allowed me to be contaminated by other disciplines like mechanical design, electronics, firmware development, control design.

I possess good experience in robotics, GUI design, communication protocols, embedded system development. My favorite programming language is 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 the ability to work on tasks out of my comfort zone.

Skills

Informatics

Languages	**Good knowledge:** C, C++17. **Intermediate knowledge:** Java, Matlab, CMake. **Basic knowledge**: Lua, NI LabView, SQL, JSP, VB, HTML, Python.
Platforms	Linux, Windows, macOS.
Tools	Blender, Qt creator, Creo Parametric, VS2010-19, gazebo, OpenCV, PCL, YARP, Git, Office suite, Matlab, Simulink, NI LabView, Swig, Embedded Wizard, Keil μvision.

Engineering

Topics	**Good knowledge:** robotics, software design. **Intermediate knowledge:** computer vision, model-based design, human-computer interaction. **Basic knowledge**: web application development, machine learning, mathematics, physics, biomedical instrumentation, animation.

Experience

Work

from 05/2022 to present — **Senior Engineer @ iCub Tech**, *Istituto Italiano di Tecnologia*, Genova, Italy.
In quality of Software Distro Manager, I am the responsible person for time-based software releases of the iCub-Tech department. Recently, I participated to a project for defining a general purpose telemetry library and I developed a suite for controlling robots through Blender. I have also partecipated to the web-based app deployment of iCub-Tech, robot-bazaar.

from 10/2016 to present — **Junior Engineer @ iCub Facility/iCub Tech**, *Istituto Italiano di Tecnologia*, Genova, Italy.
I have been involved in commercial projects(protected by n.d.a) and open-source like the development and the maintenance of YARP robotics middleware. Moreover, I had the chance also of being involved in not-robotics projects like the ventilator fi5. Finally, I participated also in dissemination activities for the iCub community such as Easy Peasy Robotics 2017-2020 and VVV school 2018, and I held a course on modern c++ for the PhD students of Unige.

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. L. Natale and Prof. F. Solari. The goal was to build a classifier for the traversability of the scene processing the 3D data of a structured light depth sensor.

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. F. 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 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.

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

02/2021 — **Embedded Coder for Production Code Generation**, *MathWorks*, Certificate.

12/2020 — **EF Level 11 - Upper Intermediate - CEFR Level B2** .

from 05/2013 to 05/2015 — **CLAD - NI Certified LabVIEW Associate Developer**, *National Instruments, Licenza 100-313-2906*.

05/2008 — **B1 DELF - Diplôme D'Études En Langue Française**.

05/2007 — **Preliminary English Test(PET)**, *University of Cambridge, Licenza 100/2031/7*.