

Nicolò Genesio

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Info

Birth 15/07/1991 (Finale Ligure)
Citizenship Italian
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GitHub <https://github.com/Nicogene>
Personal Site <https://nicogene.github.io/>

Professional profile

Robotics/Software engineer

My work experience mainly focuses 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, and control design.

I possess good experience in robotics, GUI design, communication protocols, embedded system development, and team management. My favorite programming language is C++, however, I also have familiarity with scripting languages such as Matlab, Python, and Lua.

Skills

Informatics

Languages **Good knowledge:** C, C++17.
Intermediate knowledge: Java, Matlab, CMake, C++20.
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 μ vision, PTC Creo.

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 02/2023 to present **Scrum Master @ iCub Tech, Istituto Italiano di Tecnologia, Genova, Italy.**
As a Scrum Master, I coordinated a multidisciplinary team of 7 people in the iCub Tech department. I facilitated Scrum ceremonies, ensuring effective communication and timely problem resolution. By collaborating with product owners, I ensured that the backlog was well-defined and prioritized, enhancing alignment between customer expectations and team deliverables. I fostered a collaborative and motivating work environment, increasing team satisfaction and the overall quality of the deliverables.

- from 05/2022 **Senior Engineer @ iCub Tech**, *Istituto Italiano di Tecnologia*, Genova, Italy.
to present In the quality of Software Distro Manager, I am the responsible person for time-based software releases of the iCub-Tech department. Aside this, I continue my developer's activities delivering products important for my facility such as a general purpose [telemetry library](#), [a suite](#) for controlling robots through Blender, and [a tool for extracting the URDF from assemblies in PTC CREO](#).
- from 10/2016 **Junior Engineer @ iCub Facility/iCub Tech**, *Istituto Italiano di Tecnologia*, Genova, Italy.
to 04/2022 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 **Support Engineer @ iCub Facility**, *Istituto Italiano di Tecnologia*, Genova, Italy.
to 09/2016 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 **Internship @ iCub Facility**, *Istituto Italiano di Tecnologia*, Genova, Italy.
to 10/2015 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 **Internship @ PSPC lab**, *Università Degli Studi di Genova*, Genova, Italy.
to 10/2013 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 participated to a three-day course about modern c++ held by [KDAB](#) c++11-14-17.
- from 11/2015 **Java Programming Course**, *Azienda Sicura srl*, Milano, Italy.
to 01/2016 I participated to the Java Programming Course funded by [Formatemp](#).
- from 10/2013 **Master Degree in Bioengineering**, *Università degli studi di Genova*, Genova, Italy.
to 10/2015 Curriculum *Neuroengineering and Bio-ICT*, 110/110 cum laude.
- from 09/2010 **Bachelor Degree in Biomedical Engineering**, *Università degli studi di Genova*, Genova, Italy.
to 10/2013 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

- 02/2021 **Embedded Coder for Production Code Generation**, *MathWorks*, [Certificate](#).
- 12/2020 **EF Level 11 - Upper Intermediate - CEFR Level B2**.
- from 05/2013 **CLAD - NI Certified LabVIEW Associate Developer**, *National Instruments*, *Licenza 100-313-2906*.
to 05/2015
- 05/2008 **B1 DELF - Diplôme D'Études En Langue Française**.
- 05/2007 **Preliminary English Test(PET)**, *University of Cambridge*, *Licenza 100/2031/7*.