

# Giovanni Claudio

## Curriculum Vitae

✉ giovanni.claudio@inria.fr  
✉ jokla89@gmail.com  
🌐 jokla.me

### Personal Information

Sex Male  
Birth 24/10/1989 in Genoa (Italy)  
Nationality Italian  
Address Rennes 35000, FRANCE

### Education

- 2012– 2013 **Master ARIA (Control Engineering, Robotics and Applied Informatics) Specialization: Advanced Robotics**, *Ecole centrale de Nantes*, France.  
Research methodology, Advanced modeling of robots, Identification and control of robots, Humanoid and walking Robots, Optimal kinematic design of robots, Capture and simulation of human motion, Vision based control.
- 2011– 2013 **Master in Robotics Engineering**, *University of Genoa*, Italy.  
Control Of Linear Multi Variable System, Non Linear Control Theory, Real Time Systems, Mechanics Of Mechanism And Machines, Computer Vision, Modeling And Control Of Manipulators, Robot Programming, Artificial Intelligence, Neural Network, Machine Learning, Optimization Techniques, Embedded Systems, Mechanical Design Methods.
- 2008–2011 **Bachelor's Degree in Computer Science Engineering**, *University of Genoa*, Italy.  
Computer Science, Software Engineering, Automatic Control Systems, System Engineering, Signal Processing, Math, Physics, Economics, Web Technologies, Database Design.

### Work experience

#### R&D Robotics Engineer at INRIA

Dates November 2013 - Now  
Employer *Lagadic Team at Inria Rennes Bretagne Atlantique* 35042 Rennes, France  
Occupation The aim of the job is to adapt the visual servoing techniques developed in the EPI Lagadic on the robot Humanoid Romeo (Aldebaran). The objective is to control the Romeo using its own sensors (mainly cameras), for achieving desired positions and for object grasping and manipulation.  
Leader François Chaumette.  
Sector Robotics, Humanoid Robots, Computer Vision, Visual Servoing.

#### Internship at IRCCyN

Dates February - September 2013  
Employer *Ecole Centrale de Nantes E.C.N*, 44300 Nantes, France  
Title "*Pose and velocity estimation for high speed robot control*".  
Occupation The goal of the project was to develop an algorithm in C++ able to estimate the pose and the velocity of a high speed parallel robot at high frequency (2 kHz) using high speed cameras.  
Leader Professor Philippe Martinet ECN, IRCCyN.  
Sector Robotics Control, Computer Vision, Visual Servoing.

#### Employee at Spack Srl

Dates July - September 2008  
Employer *Spak Srl*, Via Rolla Francesco 26, 16152 Genova, Italy.  
Occupation After a training time in Thera S.p.a. I was involved in the hardware and software updating of Banca Carige branch offices.  
Sector Informatics service.

### Activities

- Member of *OpenLab* from 2009, elected "Officer" from 2011. Openlab is a Student Club recognized by the University of Genoa with more than 60 members. The aim of the club is to spread IT culture and Free Software both inside and outside the University. We organize talks, projects, thematic events, workshops and open courses.

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## Projects

### Matlab ROS Bridge

Description This software consists of a set of Matlab C++ S-functions that can be used to synchronize simulink with the system clock, thus obtaining a soft-real-time execution and interface simulink blocks with other ROS nodes using ROS messages.

### V-Rep ROS Bridge

Description The main application of the plugin is to provide a communication interface between V-Rep and (ROS). The aim is to control the V-Rep simulation externally using ROS messages and ROS services.

### Stay Alert! - Ford Competition

Description The objective is to design a classifier that will detect whether the driver is alert or not alert, employing data that are acquired while driving.

### Bachelor Thesis (University of Genoa, Italy)

Title ***"Design and Development of a Modular CMS for a Student Club"***.

Description Planning and developing a complete "Content Management System" (CMS) framework which can be easily customized, improved and reused for satisfying different new specifications.

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## IT skills

### Programming and markup languages

Advanced C, C++/STL, OpenCV, ViSP, POSIX, MATLAB, R,  $\text{\LaTeX}$ .  
Intermediate Python, Cuda, HTML, CSS, PHP, MySQL, XML.  
Basic UML.

### Operating systems

Advanced GNU/Linux, Microsoft Windows.  
Intermediate QNX Neutrino.

### Software tools and others

Advanced ROS, Simulink, V-REP, GIT, SVN, CMake

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## Languages

Italian **Native language**  
English **Advanced**  
French **Intermediate**  
Spanish **Basic**

*Level B1 (TFI).*

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## Interests

### Music

1998 - now Piano and Electronic keyboard player.  
2007 - now Singer and entertainer for parties and weddings.  
Dic 2012 Chorister of *Mika*, concert at Roundhouse 13 Dec 2012, in Chalk Farm, London, England (chosen after audition).  
Aug 2012 *AIMS Summer School* in England at Eastbourne College. Courses attended: Cabaret class, Vocal Technique, Musical class (singing, acting and dancing).  
May 2012 First place at the singing competition "*Solo per una voce*" organized by "Scuola d'arte e spettacolo Arti's" in Genoa. Jury headed by Tiziana TOSCA Donati, Italian singer and actress. Prize: AIMS Summer School.  
2008 - 2012 Studied Pop/Rock singing.  
2003 - 2008 Joined as Bariton in the polyphonic choir "I polifonici di Genova", in Genoa.  
2001 - 2003 Joined in the polyphonic choir "JanuaVox" in Genoa.