

# Curriculum Vitae



## Personal information

Name / Surname

**Agüero Durán, Carlos Enrique**

Address

Madrid, Spain

Personal Email

cen.aguero@gmail.com

Home page

<http://gsyc.es/caguero>

Nationality

Spanish

## Occupational field

**Robotics, Simulation, Middleware**

## Work experience

Dates

2020 to present

Occupation or position held

Consulting Software Engineer

Main activities and responsibilities

Project lead in multiple simulation projects, Gazebo developer.

Dates

2017 to 2020

Occupation or position held

Software Engineer Supervisor at Open Robotics (Mountain View, CA, USA)

Main activities and responsibilities

Project lead in multiple simulation projects, intern program manager, engineering supervisor, Gazebo developer.

Dates

2013 to 2017

Occupation or position held

Software Engineer at Open Robotics (Mountain View, CA, USA)

Main activities and responsibilities

Research and develop open source software for use in robotics research, education, and product development. Gazebo developer.

Dates

2010 to 2013

Occupation or position held

Associate Professor at Universidad Rey Juan Carlos (Madrid, Spain)

Main activities and responsibilities

Taught multiple Robotics courses at official Computer Science program and Telecommunications Engineering program. Main researcher of Robotics Group since 2001. Director of the Telematics and Computer Systems M.S. program

Dates

2007 to 2010

Occupation or position held

Teaching Assistant at Universidad Rey Juan Carlos

Main activities and responsibilities

Teaching duties / Robotics researcher. Advised several BS thesis in the Robotics field

Dates

2003 to 2006

Occupation or position held

Researcher associated to different projects financed by Spanish Science and Technology department

Main activities and responsibilities

Research Assistant focused on the development of an architecture for the control of cooperative autonomous robots using free software

Dates

November 2002 to April 2003

Occupation or position held

Fellowship in Computer Services at Universidad Rey Juan Carlos

Main activities and responsibilities

System and network administration

## Education and training

Place and date

Universidad Rey Juan Carlos, 2010

Title of qualification awarded

Ph.D in Robotics (*Cum laude*)

Thesis topic: *Distributed Perception and Role Allocation in Multi-robot Systems*

Advisor: Professors José María Cañas Plaza and Vicente Matellán Olivera

Title of qualification awarded

M.S., Computer Engineering from Universidad Rey Juan Carlos (February 2005)  
Thesis topic: *Development of an autonomous system for detecting overtake situations in heavy vehicles (Cum laude)*  
Advisor: Professor José María Cañas Plaza

Title of qualification awarded

B.S., Computer Engineering from Universidad Rey Juan Carlos (September 2002)  
Thesis topic: *Routing protocol for ad-hoc networks in mobile robots (Cum laude)*  
Advisor: Professors Vicente Matellán and Pedro de las Heras

## Personal skills and competences

Mother tongue

Other language(s)

*Self-assessment  
European level<sup>(\*)</sup>*

**English**

**French**

## Spanish

Understanding		Speaking				Writing			
Listening		Reading		Spoken interaction		Spoken production		Writing	
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B1	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

Robotic skills and competences

Simulation, multi-robot coordination, sensor fusion, localization, ROS

Technical skills and competences

Programming: C/C++, Python, Ruby, shell scripting. Software testing, TCP/IP, Multi-threading, middleware, Bayesian inference, Probability, and Stochastic Processes

Computer skills and competences

Heavily involved in free software culture, advanced GNU/Linux user working with SVN, mercurial, git,  $\LaTeX$ , *Makefile*, *CMake* and other common development tools

## Visiting centers

Dates  
Center

September 2011 to December 2011  
Postdoctoral visit at Carnegie Mellon University (Pittsburgh, PA, USA) - CORAL group, led by Professor Manuela Veloso

Dates  
Center

July 2010 to September 2010  
Postdoctoral visit at University of Texas at Austin (Austin, TX, USA) - Learning Agents Research Group (LARG), led by Professor Peter Stone

Dates  
Center

August 2003 to February 2004  
Socrates/Erasmus fellowship at Université Paris VI - Pierre et Marie Curie

## Projects

Complete list available

<http://gsync.es/~caguero/projects.html>

## Publications

Complete list available

<http://gsync.es/~caguero/pubs.html>

## Additional information

Hobbies

Radio control car racing, sports, and programming