



# carlos hernández matas

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email [carlos@hernandez.im](mailto:carlos@hernandez.im)  
web <http://carlos.hernandez.im>  
linkedin <http://www.linkedin.com/in/carloshernandezmatas>

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## work experience

- sep'13 – present **Researcher**, Foundation for Research & Technology - Hellas (FORTH), *Heraklion, Greece*.  
Marie Curie Fellow for the FP7 research project in Retinal Vascular Modelling, Measurement and Diagnosis (REVAMMAD) at the Computational Vision and Robotics Lab of FORTH's Institute for Computer Science.
- dec'12 – jul'13 **Software Engineer**, Scientific Games, *Budapest, Hungary*.  
Developing the Xion Terminal Management System and its sub products and adapting them to the particular requirements of each customer. Development using Java, C++, Bash shell scripts, PHP, MySQL, JavaScript and HTML. Temporary relocations to Germany.
- dec'11 – dec'12 **Software Developer Engineer**, Nokia Siemens Networks, *Budapest, Hungary*.  
Working at the Serve atOnce Device Management (SADM) team for automatic mobile phone provisioning. Development in Java and Groovy using Agile and Lean methodologies such as Scrum, Kanban, Test Driven Development, Behavior Driven Development and Extreme Programming.
- aug'10 – nov'10 **Teaching Assistant**, Royal Institute of Technology (KTH), *Stockholm, Sweden*.  
Teaching Assistant for the course *EL2310 Scientific Programming*. Helping arranging the course and conducting help sessions for the students, as well as examining them and evaluating their projects in C, C++ and MATLAB.
- nov'08 – aug'09 **Operator of the Telecommunications Port - NOC**, Servicios Audiovisuales Overon S.L., *Madrid, Spain*.  
Planning and setting up the transmission chains for the provided telecommunication services (Satellite, IP, Wireless), as well as ensuring its working status. Having direct contact with costumers all around the world. Solving any faults in the service derived from the existent reception and transmission systems. Active participation in the Network Operations Center.
- mar'06 – aug'09 **Several roles**, Board of European Students of Technology (BEST), *Madrid, Spain*.  
Volunteer collaborating in the arrangement of engineering courses and seminars for foreign students in the local UPM branch of BEST. Teamworking to obtain funds for the courses by contacting companies and organizations. Organizing activities for Erasmus and Athens students at UPM.
- oct'06 – jun'07 **Web developer**, Technical University of Madrid (UPM), *Madrid, Spain*.  
Internship at the university creating and maintaining webpages for the Linguistics Department and the Student Union. Also, translating documents and creating a database for the library of the Linguistics Department.

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## education

- aug'09 – aug'11 **Master of Science in Systems, Control and Robotics**, *120 ECTS credits*, Royal Institute of Technology (KTH), *Stockholm, Sweden*.  
2-year program taught in English.

aug'02 – jun'08 **Bachelor Degree in Telecommunications Engineering, major in Electronic Systems, 180 ECTS credits**, Technical University of Madrid (UPM), *Madrid, Spain*.  
Thesis written during Erasmus at Blekinge Institute of Technology (BTH), *Karlskrona, Sweden*  
Rank: 2 / 36

## theses

- MSc Thesis C. Hernández Matas. *Active 3D Scene Segmentation Using Kinect*. Computer Vision and Active Perception Lab, Royal Institute of Technology (KTH), 2011. [LINK](#)
- BSc Thesis C. Hernández Matas, D. Gómez Olmedilla. *Image Theory Applied to Virtual Microphones*. Department of Signal Processing, Blekinge Institute of Technology (BTH), 2008. [LINK](#)

## relevant education

- august 2011 **Tohoku University Engineering Summer Program 2011 - Robotics**, Tohoku University (TU), *Sendai, Japan*, 3 ECTS credits.
- july 2008 **Robolution: Mechatronic Future**, Slovak University of Technology (STU), *Bratislava, Slovakia*, 50 hours.
- april 2008 **Clean and Renewable: Bioenergy**, Istanbul Technical University, (ITU), *Istanbul, Turkey*, 24 hours.

## languages

- spanish **mother tongue.**
- english **full professional proficiency, TOEFL iBT on April 2013: 109 / 120.**

## skills

- interests Biomedical engineering, Robotics, Computer Vision, Machine Learning, Artificial Intelligence
- os Windows, Mac OS X, Linux (Ubuntu), MS-DOS
- languages C, C++, Java, MATLAB, Bash, Octave, Python, Assembler
- products OpenCV, LabView, Max+Plus II, Pspice
- other  $\LaTeX$ , Gradle, subversion, Clear Case, Eclipse, Microsoft Office, Photoshop
- methodologies Agile, Lean, Scrum, Kanban, Test Driven Development (TDD), Extreme Programming

## miscellaneous

- driving European driving license for cars. Issued in 2003
- scuba diving PADI Open Water Diver

Budapest, September 6, 2013