

Europass Curriculum Vitae

Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

Email(s)

Nationality(-ies)

Date of birth

Gender

Jorge Francisco Madrigal Díaz

Callejon Jacarandas Lote 4 Mnza 8 36030 Guanajuato, Guanajuato (Mexico)

+52 4735602690 Mobile: +52 4737329805

pacomd@cimat.mx

Mexican

01/01/1985

Male



Work Experience

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

01/09/2007 - 31/07/2008

Computer programmer

Design and develop of system for small and medium enterprises

David Vega Av. 5 de Mayo Sur # 680 Int Cyd, 59690 Zamora (Mexico)

Commercial

Education and Training

Dates

Title of qualification awarded

Principal subjects/occupational skills covered

Name and type of organisation providing education and training

Level in national or international classification

04/08/2003 - 30/03/2008

Computer Systems Engineer

Software developer and Networks

Instituto Tecnológico de Estudios Superiores de Zamora (University) Km. 7 Carretera Zamora - La Piedad, 59720 Zamora (Mexico)

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Dates

Title of qualification awarded

Thesis

Principal subjects/occupational skills covered

Name and type of organisation providing education and training

Level in national or international classification

11/08/2008 - 05/11/2010

Master's Degree in Computer Science

Multiple Interactive Target Tracking in through Multiple Cameras

Computer vision, robotics and image processing

Centro de Investigación en Matemáticas, A.C. (Research Center) Jalisco S/N Col. Valenciana, 36240 Guanajuato (Mexico)

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Dates

Title of qualification awarded

Principal subjects/occupational skills covered

10/01/2011 - Today

Ph.D. Student

Computer vision and robotics

Name and type of organisation
providing education and training
Level in national or international
classification

Centro de Investigación en Matemáticas, A.C. (Research Center) Jalisco S/N Col. Valenciana, 36240
Guanajuato (Mexico)

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Personal skills and competences

Mother tongue(s)
Self-assessment
European level^()*

English

French

Spanish

| Understanding | | | | Speaking | | | | Writing | |
|---------------|-----------------|---------|-----------------|--------------------|------------------|-------------------|------------------|---------|------------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| C1 | Proficient user | C1 | Proficient user | B2 | Independent user | B2 | Independent user | B2 | Independent user |
| A2 | Basic user | A2 | Basic user | A1 | Basic user | A1 | Basic user | A1 | Basic user |

^(*)Common European Framework of Reference (CEF) level

Social skills and competences

Team spirit, I like to work in cooperative environment.

Organisational skills and competences

Experience at projects for enterprises and research work.

Computer skills and competences

Platforms: Solaris, Windows, Linux, Mac OSX

Programming Languages: C, C++, VB, C#, Java, .Net

Libraries: CUDA, TBB, OpenGL, OpenCV, Qt

Others: NAOqi to program NAO.

Applications: LATEX, Office, Matlab, R, XCode

Areas: Computer Vision, Image Processing, Robotics, Filtering.

Publication

Conferences

Robust visual localization of a humanoid robot in a symmetric space (M. J. Garcia Vazquez, F. Madrigal, O. Mar, C. Esteves and J-B. Hayet), Chapter in Proc. of the Mexican International Conference on Artificial Intelligence (MICA), 2012. Color and motion-based particle filter target tracking in a network

of overlapping cameras with multithreading and GP-GPU (F. Madrigal, J-B. Hayet), In Proc. Of the 3rd International Supercomputing Conference in Mexico (ISUM), 2012.

Learning and Regularizing Motion Models for Enhancing Particle Filter-Based Target Tracking (F. Madrigal, M. Rivera, J.B. Hayet), Chapter in Advances in Image and Video Technology, 5th Pacific Rim Symposium, Proceedings of PSIVT 2011 (ISBN 978-3-642-25366-9), Springer, volume 2, 2011.

Multiple Target Tracking with Motion Priors (F. Madrigal, M. Rivera, J.B. Hayet), Chapter in Proc. of the Mexican International Conference on Artificial Intelligence (ISSN 0302-9743), Springer, 2011. Multiple

view, multiple target tracking with principal axis-based data association (F. Madrigal, J-B. Hayet), In Proc. of the IEEE Int. Conf. on Advanced Video and Signal based Surveillance (AVSS'11), 2011.

Color and motion-based particle filter target tracking in a network of overlapping cameras with multithreading and GPGPU (F. Madrigal, J.B. Hayet), To appear in Acta Universitaria, 2013.