Jorge Méndez Astudillo

Address: Calle de la riba 43 2-1

08221, Terrassa. Spain

Contact: +34 665 035 108

jrgmenas@gmail.com

Date of birth: April 28th 1986

Education:

September 2009- October 2011 European Master of Science in Research on Information

and Communication Technologies. Erasmus Mundus

programme¹.

 September 2010-October2011: Karlsruhe Institut für Technologie², Karlsruhe Germany. Main subjects: photonics, light engineering, systems engineering, telecommunications

September 2009-July 2010: Politecnico di Torino³, Torino Italy
Main subjects: signal processing, programming, electronics for telecommunications, electronic design

August 2004-December 2008: B.Sc. Electronics and Communications Engineering.

Instituto Tecnológico de Monterrey campus ciudad de

México.

Main subjects: Electronics, signal processing, communications,

control engineering, networking.

Research

September 2012-November

2013

Pre-doctoral formation: *Doctorate in Optics: Self-Mixing interferometry.* CD6 Barcelona Tech. Terrassa Spain. *Main duties: Bibliography research, design of a driver for a VCSEL and design of a driver for a FP laser.*

design of a anver for a reliaser.

Master Thesis: "Development of an Integrated Liquid Crystal Phase Shifter" at

Institute of Photonics and Quantum Electronics⁴, in Karlsruhe Institute of Technology. (November 2011). Supervisor-Prof. Dr. Christian Koos

Bachelor Thesis: "Intelligent wheelchair with an eye-movement control" at Tecnologico

de Monterrey. (January 2008- December 2008). Supervisor. Dr.Pedro

Ponce

4 http://www.ihq.uni-karlsruhe.de/index en.htm

http://www.meritmaster.org/; http://ec.europa.eu/education/external-relation-programmes/doc72 en.htm

² http://www.kit.edu/index.php

³ http://www.polito.it/

Publications/Conferences

- "Liquid Crystal Phase Shifter for the SOH Platform with Ultra-Low Power Consumption". Alloatti, L.; Pfeifle, J.; Mendez, J.; Freude, W.; Leuthold J.; Koos,C.: Optical Fiber Communication Conference (OFC'12), Los Angeles (CA), USA, March 4 -8, 2012, paper OTu1I.5
- "Self-aligned laser sensor for vibrometric measurements". J.Mendez Astudillo, R.Atashkhooei, F.Azcona, S.Royo: International summer school: Trends and new developments in Laser Technology. IWS Fraunhofer Institute. Dresden, Germany (August 2012)
- Differential Optical Feedback Interferometry: a New Method to Measure Nanometer Displacements. F.J Azcona, R. Atashkhooei, S. Royo, J. Mendez Astudillo, A. Jha 8a reunión de Optoeletrónica, OPTOEL 2013: Alcalá de Henares SPAIN.
- A method to measure sub-nanometric amplitude displacements based on optical feedback interferometry. F.J Azcona, R. Atashkhooei, S. Royo, J. Méndez Astudillo, A. Jha. Proc.SPIE 8789(2013).
- A nanometric displacemente measurement system using differential optical feedback interferometry F.J Azcona, R.Atashkhooei, S. Royo, J. Méndez Astudillo, A. Jha, Opt. Exp(Submitted)

Languages:

Spanish: Mother tongue

English: Fluent: 8 overall score in IELTS, September 2011.

French: Fluent: Unit B2 DELF (January 2007). Level B2 in TCF September 2008

German: Advanced: Level B2 Goethe Institut. Currently under study.

Italian: Advanced: Level B2 Scuola Leonardo da Vinci.

Portuguese: *Basic*. Self-taught.

Chinese: *Basic.* Currently under study.

Awards

November 2012: Pre-doctoral grant UPC awarded for the academical period 2012-

2013.

May 2010: Erasmus Mundus Scholarship awarded for the academical period

2010-2011.

May 2009: Erasmus Mundus Scholarship awarded for the academical period

2009-2010 in Politecnico di torino.

October 2008: Active participation in "Expociencias Nacional 2008" (Puebla, Mexico).

October 2008: Exhibitor in NI Days 2008 in Instituto Politécnico Nacional (Mexico City,

Mexico).

Experience:

November 2011-April 2012 : Internship: Intern at SolarPrint, Dublin, Ireland

I was in charge of designing tests for their products and actively participated in designing energy

harvesting systems used with their products.

August-September 2010: Language assistance for Dr. Fulvio Risso, translation

Italian-English of the script for the course "Advanced

network design" Torino, Italia.

January-March 2009: Language assistance for Dr Esau Vicente Vivas,

translation Spanish-English of article: "Design of an

educative satellite" UNAM, Mexico city.

August 2008-December 2008: **Technological advisor** for BathKamer, a new company

in Tec's de Monterrey business incubator.

January 2007 – November 2007: **Teaching:** Problem solving sessions for the subject:

electrical circuit analysis, the main idea was to solve problems with the students of electrical circuit analysis. Departamento de Mecatrónica. ITESM-CCM

August-November 2007: **Maintenance of computers** in Cybertlalpan,

Delegación Tlalpan.

August-December 2006: Server operator in Cybertlalpan parque Morelos,

Delegación Tlalpan.

Technological abilities:

Software: Adobe Flash, Adobe Dreamweaver, Photoshop

MS office: Word. Excel. Powerpoint. Visio

PsPice. Electronics Workbench. EAGLE. Proengineer

Programming languages: C++. Java. Matlab. Labview.

Other: Cyberadmin, Rsoft, Origin, Zeemax

Other courses:

March 2009: Linux services, linux para todos. Mexico City.

January 2009: Installing servers using Linux, Linux para todos. Mexico City

July 2008: *Local wireless networks*. DGSCA-UNAM . Mexico City. July 2008: *CCNA1*. CISCO Networking academy. Mexico City.

August 2004: Introduction to telecommunications. DGSCA-UNAM. Mexico City

International experiences:

November 2011-April 2012: Internship in Dublin, Ireland.

May 2009-June 2009: German language course in Goethe Institute Düsseldorf.

July 2007: **Course** "Satellite communications and mobile

communications" in College of Engineering, Copenhagen,

Denmark.

June 2007: Course "Wireless communications" in School of Engineering

Jönkoping University, Jönkoping, Sweden.

June 2006: Language immersion course in L'institut de tourraine, Tours

France.

June 2005: Language immersion course in CAVILAM, Vichy, France. June 2004: Language immersion course in Pluriel Langues, Nice,

France.

August 2002-July 2003: 11th grade in Vincent Massey Collegiate, Winnipeg,

Manitoba, Canada.

Engagement:

Since February 2013: Co-founder and president of Erasmus Terrassa, our goal is to

organize activities for Erasmus students. Language exchanges,

parties, trips and team-building activities.

April 2011-February Member of Erasmus Mundus Alumni Association. Latin

2013: American Chapter (EMA-LA⁵).

March 2003-July 2003: Volunteering in the Manitoba Children's Museum.

General information:

Availability to travel: Yes Willingness to relocate: Yes

Interests: optical communications, telecommunications, photonics, light engineering,

wireless sensor networks and energy harvesting.

Leisure activities: Kendo, Tennis, Rowing, Flamenco, Photography

Update: October, 2013.

References available upon request

⁵ http://ema-la.eu/