

# CURRICULUM VITÆ

LUIS MIGUEL MARQUES FERREIRA

October 2020

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## PERSONAL INFORMATION

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NATIONALITY: Portuguese

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YouTube: <https://bit.ly/2XQTCkq>  
Google Scholar: <https://bit.ly/2P3tjl5>

## PROFESSIONAL EVOLUTION

- Since 2019: **Chair of the B.Sc. and M.Sc. Programs** in Mechanical Engineering, Polytechnic Institute of Tomar (IPT), Portugal.
- 2017-19: **Engineering Division Chair** at the Higher Colleges of Technology - Abu Dhabi Men's College, United Arab Emirates.
- 2016-17: **Program Chair** of the Mechanical Department at the Higher Colleges of Technology - Abu Dhabi Men's College, United Arab Emirates.
- 2015-2016: **Faculty** at the Higher Colleges of Technology - Abu Dhabi Men's College, United Arab Emirates.
- 2014-2015: **Chair of the M.S.c. Program** in Mechanical Engineering at the Polytechnic Institute of Tomar (IPT), Portugal.
- 2012-2015: **Associate Professor** at the Polytechnic Institute of Tomar (IPT), Portugal. Ph.D. Professor.
- 2002-2012 **Assistant Professor** at the Polytechnic Institute of Tomar (IPT), Portugal.
- 1999-2001 **Trainer** at the technological school FERNAVE, S.A., Portugal.

## SUMMARY OF CURRICULUM VITAE

My education comprises of a Doctorate in Mechanical Engineering from the University of **Seville, Spain, obtained in 2012**, with the thesis “Study of the behavior on non-crimp fabric laminates by 3D finite element models” which was part of the Doctoral program: "Fundamentals for Engineering Design Mechanics " and to which the maximum grade was attributed unanimously, *Apto, Cum Laude*. In 2009, I was awarded the Diploma of Advanced Studies with the final grade of Outstanding by Unanimity and the investigative sufficiency in the area of Mechanics of Continuous Mediums and Theory of Structures that allowed me to begin initiate my Doctoral research. In 2001, I obtained the diploma and bachelor's degrees (both pre-Bologna and equivalent to Masters) in Mechanical Engineering at the *Instituto Superior de Engenharia de Lisboa (ISEL)* of Portugal. I also obtained the Certificate of Pedagogical Aptitude (CAP) in 2005, which was awarded by the Employment and Vocational Training Institute of the Ministry of Labor and Social Solidarity of Portugal.

I was awarded the **predoctoral fellowship** "PROTEC - Support Program for Advanced Training of Teachers of Polytechnic Higher Education" in 2010, funded by the Foundation for Science and Technology of the Ministry of Education and Science of Portugal. The date of completion of the scholarship was in 2012 when I obtained the title of Doctor.

I have **16 years of experience in public higher education** and accumulated **more than 6,000 hours lecturing** First and Second Cycles Engineering Programs. I began my teaching experience in the academic year 2002/03 as First Triennial Assistant (in exclusivity) in the Department of Mechanical Engineering at the *Escola Superior de Tecnologia de Abrantes* of the *Instituto Politécnico de Tomar* in Portugal. During the academic year 2005/06, I was promoted to Second Triennium Assistant (exclusively) and in 2012/13 to **Associate Professor**. In the Spring semester of the academic year of 2014/2015, I became a Faculty in the Mechanical Engineering Department at the Higher Colleges of Technology in the United Arab Emirates.

Since 2002, I've lectured and coordinated **more than 20 different courses** in various scientific areas of Mechanical Engineering, for example, Technical Drawing, Composite Materials, Materials Mechanics, Heat Transfer, Aerodynamics, Computer Aided Manufacturing, among others. In all the processes that I've been submitted to evaluate the teaching quality, I received excellent reviews and ratings which attests the effectiveness and dedication regardless of the course, study cycle or higher education institution.

Apart from the teaching experience, I also held various management positions in Higher Education. In 2014, I was appointed **Program Chair of the master's degree in mechanical engineering - Design and Mechanical Production** at the *Escola Superior de Tecnologia de Abrantes* of the *Instituto Politécnico de Tomar* in Portugal. During the academic year of 2016/17 I was appointed **Program Chair of the Bachelor of Applied Science in Mechanical Engineering** at the Higher Colleges of Technology - Abu Dhabi Men's Campus and since the academic year 2017/18 I'm the **Engineering Division Chair**. Currently, I'm working at the Polytechnic Institute of Tomar (IPT), Portugal as **Chair of the B.Sc. and M.Sc. Programs in Mechanical Engineering**.

I've actively participated in several academic committees and made part of the **organizing committee of the International Conferences**. For example, the ECCM16 - 16th European Conference on Composite Materials (Seville), where I was invited as Session Chair for the sessions of Fracture and Damage Composites and Steel Fiber, and for the ASET Conferences 2018 - Advanced Materials, Design and Manufacturing (Dubai, United Arab Emirates) where I was also the **Sub-Conference Chair**.

Since 2010, I'm a **member of the research group GERM - Group of Elasticity and Strength of Materials of the University of Seville in Spain**. The results of my research have been published in several scientific papers of the most important journals in the area and also have several participations in National & International Conferences. I've been a reviewer for scientific journals and **member of the Editorial Board - Composite Materials (CM)** for the International Journal of Mechanical Engineering and Applications where I've been also a **Certified Guest Editor** for the special edition, Structural Integrity of Mechanical Components. In 2011, I participated in a research project funded by the European Regional Development Fund, whose objective was to audit the available technologies in the most relevant sectors of the central region of Portugal. Also, between 2004 and 2013, I was also responsible for several research projects applied to the solution of technical problems for national and multinational companies.

## 1. ACADEMIC BACKGROUND

### 1.1. DOCTORATE

2012: **Thesis title:** Study of the behaviour of non-crimp fabric laminates by 3D finite element models.  
**Degree awarding entity:** Universidad de Sevilla, Spain  
**Date of degree:** June 6<sup>th</sup>, 2012  
**Qualification:** “Cum Laude”, unanimously  
**Thesis Directors:** Federico París and Enrique Graciani  
**Doctorate Program:** Fundamentos para el Diseño en Ingeniería Mecánica  
**Recognition of quality:** Quality recognition from the Ministry of Science and Education, Spain  
**DOI:** 10.13140/RG.2.1.3265.3684

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2009: **Degree:** Diploma of Advanced Studies  
**Degree awarding entity:** Universidad de Sevilla, Spain  
**Date of degree:** June 26<sup>th</sup>, 2009  
**Qualification:** Excellent, unanimously

### 1.2. FIRST AND SECOND CYCLE STUDIES (PRE-BOLOGNA DEGREES)

2001: **Degree:** Graduate in Mechanical Engineering. Equivalent to M.Sc. Degree  
**Degree awarding entity:** Lisbon Higher Institute of Engineering (ISEL), Portugal  
**Date of degree:** December 15<sup>th</sup>, 2001  
**Qualification:** 13

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1998: **Degree:** Undergraduate in Mechanical Engineering.  
**Degree awarding entity:** Lisbon Higher Institute of Engineering (ISEL), Portugal  
**Date of degree:** December 15<sup>th</sup>, 2001  
**Qualification:** 13

### 1.3. DISTINCTIONS, AWARDS & CERTIFICATIONS

2020: **Certification title:** CCP – Pedagogical Competences Certificate (EDF 49236/2005)  
**Awarding entity:** Instituto de Emprego e Formação Profissional – Ministry of Work and Social Solidarity, Portugal

**Date:** July 8<sup>th</sup>, 2020

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2020: **Certification title:** PhD Trainer (CCPFC/RFO-40471/20)  
**Awarding entity:** Technical and Pedagogical Council of Continuous Education Training, Ministry of Education, Portugal  
**Date:** July 2020

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**Certification title:** SolidWorks Professional Certification. CSWA – Certified SolidWorks Associate (C-JANCNRXGEY).  
**Awarding entity:** SolidWorks  
**Date:** November 12<sup>th</sup>, 2018

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2019: **Certification title:** Lecturer – University Staff Accreditation from the Andalusian Agency of Knowledge, Direction and Evaluation of Accreditation, Spain. <http://deva.aac.es/?id=acreditacion&LAN=en>

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2005: **Certification title:** CAP –Pedagogical Aptitude Certification  
**Awarding entity:** Instituto de Emprego e Formação Profissional – Ministry of Work and Social Solidarity, Portugal  
**Date:** November 24<sup>th</sup>, 2005

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1994: **Certification title:** First Certificate in English (946PT0220059)  
**Awarding entity:** Cambridge University  
**Date:** June 1994

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2017: **Award:** Responsible proposal submission for the “Software Grant for Universities 2017” competition that was awarded to the Higher Colleges of Technology by the Department of Science, Technology & Research of the Ministry of Education of the United Arab Emirates.

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2012: **Award:** Responsible for the national winning project in modelling presented in the *SolidWorks Student Design Contest SQEDIO 2012*.

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2006: **Award:** Responsible for the international winning project presented in the *SolidWorks Student Design Contest 2006*.

#### 1.4. SPECIALISED, LIFELONG, TECHNICAL, PROFESSIONAL AND REFRESHER TRAINING

2020: **Course title:** The New Role of the Educator: Best Practices in Online Education (10h).  
**Organising entity:** Within the framework of the Santander IE aid to Education Fund. IE Foundation, Madrid. Spain  
**Aimed at:** University Teachers

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2019: **Course title:** SIEMENS NX – CAE - Simcenter Pre/Post Fundamentals Training (40h).  
**Organising entity:** SAMATEQ FZ LLC. United Arab Emirates.  
**Aimed at:** University Teachers

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2018: **Course title:** SIEMENS NX – CAD – Essentials for NX Designers Training (40h)  
**Organising entity:** SAMATEQ FZ LLC. United Arab Emirates.  
**Aimed at:** University Teachers

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2015-18: **Courses title:** E-advising (1h), Boxford CNC lathe and mill training (3h), Applied research (1h), Innovation (1h), National Instruments workshop (2.5h), Office365 and SharePoint workshop (2h), Vital source (1h), Faculty advising (1h), Pearson Mastering Engineering (2h), Blackboard learn rubrics (3h), Overview and application of CFD (1h), EES for Thermo-fluid sciences applications (1h), Invigilating Online Assessments in Blackboard (1h).  
**Organising entity:** Higher Colleges of Technology. United Arab Emirates.  
**Aimed at:** University Teachers

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2013: **Course title:** Product Life Cycle course (8h).  
**Organising entity:** Polytechnic Institute of Tomar (IPT). Portugal.  
**Aimed at:** University Teachers

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2011: **Course title:** Solidedge ST4 (8h)  
**Organising entity:** Vangest S.A., Portugal  
**Aimed at:** University Teachers

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2009: **Course title:** Energy Audits course – New regulation and its implementation (16h)  
**Organising entity:** CENERTEC S.A. - Centro de Energia e Tecnologia, Portugal  
**Aimed at:** University Teachers & Professionals within the energy sector

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2007: **Course title:** Training of trainers in entrepreneurship (16h)  
**Organising entity:** GESENTREPRENEUR - Empreendedorismo Sustentável, Lda. Portugal.  
**Aimed at:** University Teachers

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**Course title:** Residential and occupational noise course (8h)  
**Organising entity:** Polytechnic Institute of Tomar (IPT). Portugal.  
**Aimed at:** University Teachers

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2006: **Course title:** CADVENT® course (16h)  
**Organising entity:** Sandometal - Metalomecânica e Ar Condicionado, S.A. Portugal.  
**Aimed at:** University Teachers

## 1.5. CONFERENCES, COURSES AND SEMINARS FOCUSED ON IMPROVING TEACHING

2020: **Course title:** The New Role of the Educator: Best Practices in Online Education (10h)  
**Organising entity:** Santander IE aid to Education Fund. IE Foundation, Madrid. Spain  
**Aimed at:** University Teachers

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2018: **Conference name:** Innovations in Engineering Education International Conference – Global Challenges in Engineering and Technology  
**Organising entity:** Higher Colleges of Technology, Abu Dhabi, United Arab Emirates  
**Date:** April 4<sup>th</sup>, 2018  
**Scope:** The primary scope of the Innovations in Engineering Education conference is to discuss comprehensively and disseminate widely state-of-the-art research, recent achievements, global trends, an exchange of novel ideas, concepts, techniques and exciting perspectives in Engineering Education.

**Aimed at:** The Innovations in Engineering Education conference aims to help exchange information, establish permanent links and collaboration between the participants in the field of global engineering education

2015-2018: **Seminars:** E-advising (1h), Office365 and SharePoint workshop (2h), Faculty advising (1h), Pearson Mastering Engineering (2h), Blackboard learn rubrics (3h), Invigilating Online Assessments in Blackboard (1h)  
**Organising entity:** Higher Colleges of Technology, Abu Dhabi, United Arab Emirates  
**Aimed at:** University Teachers

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2017: **Conference title:** Engineering the Future Symposium 2017 – Transforming Engineering Education  
**Organising entity:** Higher Colleges of Technology, Dubai, United Arab Emirates  
**Date:** April 6<sup>th</sup>, 2017  
**Scope:** Engineering educators, students, engineers, scientists and corporate leaders from the UAE and abroad will gather to discuss how to enhance student engagement in engineering education  
**Aimed at:** Engineering educators, students, engineers, scientists and corporate leaders from the UAE and abroad

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2017: **Conference title:** ABET Symposium 2017 – Citizen Tech – Technical Programs, Reshaping Society  
**Organising entity:** ABET, Baltimore MD, USA  
**Date:** April 20<sup>th</sup>-21<sup>st</sup>, 2017  
**Scope:** Symposium is our flagship event for accreditation, assessment, and the global exchange of best practices in STEM education. Build your network. Learn new strategies. And share ideas with like-minded individuals from all over the world. Our premier event brings together passionate faculty from Los Angeles to Lisbon and all the way to Ho Chi Minh City to discuss all things ABET  
**Aimed at:** ABET Experts, academic and industry leaders

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2011: **Course title:** Introduction to Moodle (6h)  
**Organising entity:** Instituto Politécnico de Tomar. Portugal.  
**Aimed at:** University Teachers

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2011: **Course title:** Training of Trainers (97h)  
**Organising entity:** Instituto de Emprego e Formação Profissional – Ministry of Work and Social Solidarity, Portugal

**Aimed at:** Trainers

## 1.6. PARTICIPATION IN TECHNICAL NATIONAL AND INTERNATIONAL CONFERENCES

- 2017: **Conference name:** ANSYS - Fluid Codes User Conference  
**Organising entity:** Fluid Codes, United Arab Emirates  
**Place of event:** Dubai, United Arab Emirates  
**Type of participation:** Attendee  
**Date:** November 23<sup>rd</sup>, 2017  
**Aimed at:** University Faculty and Engineers (ANSYS users)
- 
- 2016: **Conference name:** The First Middle Eastern Materials Science Conference  
**Organising entity:** New York University Abu Dhabi, United Arab Emirates  
**Place of event:** Abu Dhabi, United Arab Emirates  
**Type of participation:** Attendee  
**Date:** March 24<sup>th</sup>, 2016  
**Scope:** The conference will cover oral and poster presentations from leading academic, industrial and regulatory experts in the domain of materials science from US, Europe, Asia, and the Middle East. While all speakers are invited, the event facilitates the engagement of post-doctoral fellows and students during poster sessions
- 
- 2015: **Conference name:** HCT 28<sup>th</sup> Annual Conference  
**Organising entity:** Higher Colleges of Technology, United Arab Emirates  
**Place of event:** HCT Dubai Men's Campus, United Arab Emirates  
**Type of participation:** Attendee  
**Date:** August 18<sup>th</sup>-19<sup>th</sup>, 2015
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- 2014: **Conference name:** ECCM16: 16<sup>th</sup> European Conference on Composite Materials.  
**Organising entity:** Universidad de Sevilla, Spain  
**Place of event:** Universidad de Sevilla, Spain  
**Type of participation:** Attendee and participatory – oral communication  
**Date:** June 22<sup>nd</sup> – 26<sup>th</sup>, 2014
- 
- 2013: **Conference name:** COMPOSITES2013/ECCOMAS IV: Thematic

Conference on the Mechanical Response of Composites.  
**Organising entity:** IDMEC/IST - Institute of Mechanical Engineering  
**Place of event:** Ponta Delgada, Azores, Portugal  
**Type of participation:** Attendee and participatory – oral communication  
**Date:** September 25<sup>th</sup> – 27<sup>th</sup>, 2013

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2010: **Conference name:** ECCM14: 14th European Conference on Composite Materials.  
**Organising entity:** Budapest University of Technology and Economics  
**Place of event:** Budapest, Hungary  
**Type of participation:** Attendee and participatory – oral communication  
**Date:** June 7<sup>th</sup> – 10<sup>th</sup>, 2010

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2010: **Conference name:** Congresso de Indústria Metalúrgica e Electromecânica  
**Organising entity:** CENFIM – Centro de Formação Profissional da Industria Metalúrgica e Metalmeccânica, Portugal  
**Place of event:** Tomar, Portugal  
**Type of participation:** Attendee  
**Date:** November 17<sup>th</sup> – 18<sup>th</sup>, 2005

## 2. TEACHING EXPERIENCE

### 2.1. HIGHER EDUCATION

**Associate Professor** in the Mechanical Engineer Department of the of the Polytechnic Institute of Tomar (IPT), Portugal

2020-2021: Mechanics of Materials I, Mechanical Constructions Design, Technical Drawing I, Technical Drawing II, Composite Materials

2019-2020: Mechanics of Materials I, Mechanical Constructions Design, Technical Drawing I, Technical Drawing II, Seminar

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**Faculty** in the Mechanical Engineer Department of the Higher Colleges of Technology – Abu Dhabi Men’s College, UAE

2015-2019: Heat Transfer, Mechanics of Materials, Computer Aided Drafting, Eng. Measurements & CAD

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**Associate Professor** in the Department of Mechanical Engineering of the Polytechnic Institute of Tomar (IPT), Portugal

2012-2015: Technical Drawing I, Technical Drawing II, Mechanical Constructions Design

**Assistant Professor** in the Department of Mechanical Engineering of the Polytechnic Institute of Tomar (IPT), Portugal

2009- 2012: Technical Drawing I, Technical Drawing II, Mechanical Constructions Design.

2008-2009: Technical Drawing I, Technical Drawing II, Machine-Tools, Engineering Production Labs, Mechanical Constructions Design.

2007-2008: Technical Drawing I, Technical Drawing II, Machine-Tools, Computer Aided Design, Project II, Project III, Mechanical Constructions Design.

2004-2007: Technical Drawing I, Technical Drawing II, Technical Drawing III, Computer Aided Manufacturing, Machine-Tools, Aerodynamics.

2003-2004: Technical Drawing I, Technical Drawing II, Technology of Industrial Equipment, Mechanic of Materials I, Computer Aided Manufacturing, Plates and Shells

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**Assistant Professor** in the Department of Industrial Engineering of the Polytechnic Institute of Tomar (IPT), Portugal.

2002-2003: Technical Drawing I, Technical Drawing II, Mechanical Techniques, Mechanic of Materials, Metrology and Standardization, Mechanical Technology.

## 2.2. EVALUATIONS ON TEACHING QUALITY

2019-20: **Entity:** Instituto Politécnico de Tomar, Portugal

**Evaluation** (01/09/2019 - 31/07/2020): 8.92 (10)

Average global evaluation from students: 4.8 (5)

Evaluation from students, by course:

- 2019/20 - Mechanical Constructions Design – 5 (5)
- 2019/20 - Technical Drawing I – 5 (5)

- 2017-18: **Entity:** Higher Colleges of Technology, United Arab Emirates  
**Teaching evaluation (annual):** 8 (10)  
**General evaluation (annual):** 4 (5) (*exceeds expectations*)  
Evaluation from students, by course:
- 201710 - Computer Aided Drafting – 86.05 (100)
  - 201710 - Eng. Measurements & CAD) – 100 (100)
- 
- 2016-17: **Entity:** Higher Colleges of Technology, United Arab Emirates  
**Teaching evaluation (annual):** 8 (10)  
**General evaluation (annual):** 4 (5) (*exceeds expectations*)  
Evaluation from students, by course:
- 201620 - Computer Aided Drafting – 100 (100)
  - 201620 - Eng. Measurements & CAD – 98.75 (100)
  - 201610 - Computer Aided Drafting – 90/87.5 (100)
- 
- 2015-16: **Entity:** Higher Colleges of Technology, United Arab Emirates  
**Teaching evaluation (annual):** 30 (40)  
**General evaluation (annual):** 3 (5) (*meets expectations*)  
Evaluation from students, by course:
- 201510 - Computer Aided Drafting – 95.47 (100)
  - 201510 - Eng. Measurements & CAD – 90.63/100 (100)
  - 201510 - Heat Transfer – 94.62/93.08/75/94.55 (100)
  - 201510 - Work Placement – 100 (100)
  - 201520 - Eng. Measurements & CAD – 91.88/84.06/93.75 (100)
- 201520 - Mechanics of Materials – 86.67/84.17/94.25/99 (100)
- 
- 2014-15: **Entity:** Higher Colleges of Technology, United Arab Emirates  
**Teaching evaluation (annual):** Not available. Probation period  
**General evaluation (annual):** Not available. Probation period  
Evaluation from students, by course:
- 201420 – Heat Transfer – 94.17/93.75/94.58/98.75 (100)
  - 201420 – Computer Aided Drafting – 88.75 (100)
- 
- 2010-14: **Entity:** Instituto Politécnico de Tomar, Portugal  
**Teaching evaluation:** (01/09/2010 a 31/08/2013): 8.92 (10)  
**General evaluation:** (01/09/2010 a 31/08/2013): 90.245 (100) (*excellent*)  
Average evaluation from students:
- 2014/2015: 4.81 (5)

- 2013/2014: 4.36 (5)
- 2012/2013: 4.59 (5)
- 2011/2012: 4.22 (5)

Evaluation from students, by course:

- 2014/15 - Mechanical Constructions Design – 4.8 (5)
- 2014/15 – Composite Materials – 4.81 (5)
- 2013/14 - Technical Drawing I – 4.33 (5)
- 2013/14 – Mechanical Constructions Design – 4.38 (5)
- 2012/13 – Technical Drawing II – 4.71 (5)
- 2012/13 - Technical Drawing I – 4.55 (5)
- 2012/13 - Mechanical Constructions Design – 4.3 (5)
- 2011/12 - Technical Drawing – 4.13 (5)
- 2011/12 - Machine-Tools – 4.3 (5)

### 2.3. SUPERVISION OF FINAL YEAR PROJECTS & WORK PLACEMENT

2015-19: **Project Supervisor and Coordinator:** 10x Final year projects  
**Project titles:** Design of a low-cost CNC Machine, Design of a Seg-Way, Design of a wave energy power generator  
**Entity:** Higher Colleges of Technology – Abu Dhabi Men’s College, United Arab Emirates

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2015: **Work Placement Coordinator:** 11x internships  
**Companies:** ZADCO - Zakum Development Company, ADDC - Abu Dhabi Distribution Company, Armed Force GHQ, Abu Dhabi Police - Workshops & Transport department, Municipality of Abu Dhabi City, ADNOC - Abu Dhabi National Oil Company, Al Reyadh Plastic Industries, Etihad Airways, EMAL - Emirates Aluminium, NPCC - National Petroleum Construction Company  
**Entities:** Higher Colleges of Technology – Abu Dhabi Men’s College, United Arab Emirates

### 2.4. JUROR OF FINAL YEAR PROJECTS AND WORKPLACEMENT

2019-2020: **Entity:** Escola Superior de Tecnologia de Abrantes. Instituto Politécnico de Tomar, Portugal  
**Activity:** Juror of final year projects from the M.Sc. in Mechanical Engineering.  
**Number of participations:** 8

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**Entity:** Escola Superior de Tecnologia de Abrantes. Instituto Politécnico de Tomar, Portugal

**Activity:** Juror of final year projects from the B.Sc. in Mechanical Engineering.

**Number of participations:** 2

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2015-2019: **Entity:** Higher Colleges of Technology, United Arab Emirates  
**Activity:** Juror of work placement from the B.Sc. in Mechanical Engineer. Companies: Ethiad Airways, EMAL – Emirates Aluminium y NPCC – National Petroleum Construction Company

**Number of participations:** 8

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2009-2015: **Entity:** Escola Superior de Tecnologia de Abrantes. Instituto Politécnico de Tomar, Portugal

**Activity:** Juror of work placement from the B.Sc. in Mechanical Engineer. Companies: TAP – Transportes Aéreos de Portugal, Tubo Plan, Lda., Chama – Equipamientos Térmicos, Silicalia Portugal, S.A., Prifer – Industria de moldes S.A., Renova, S.A., CarbonDream Italy S.P.A., SIVA – Sociedad de Importación de vehículos S.A. y FRASAM - Fundições, S.A.

**Number of participations:** 13

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2007-2015: **Entity:** Escola Superior de Tecnologia de Abrantes. Instituto Politécnico de Tomar, Portugal

**Activity:** Juror of final year projects from the M.Sc. in Mechanical Engineering.

**Number of participations:** 13

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## 2.5. COURSES, SEMINARS & WEBINARS FOR UNIVERSITY TEACHERS TRAINING

2020: **Course title:** Pedagogical innovation course (1<sup>st</sup> edition)

**Entity:** Instituto Politécnico de Tomar, Portugal

**Scope:** Training in pedagogical innovation and new teaching and learning methodologies for University Teachers

**Aimed at:** University Teachers

**Duration:** 12 hours

**Date:** July 7<sup>th</sup> – 22<sup>nd</sup>, 2020

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2020: **Seminar title:** Create quizzes with Microsoft Forms

**Entity:** Instituto Politécnico de Tomar, Portugal

**Scope:** Use of Microsoft Forms to create quizzes and online exams

**Aimed at:** University Teachers

**Duration:** 3 hours

**Date:** May 8<sup>th</sup>, 2020



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2020: **Seminar title:** Assessments with Microsoft Teams  
**Entity:** Instituto Politécnico de Tomar, Portugal  
**Scope:** Use of Microsoft Teams as a tool for online assessment in higher education  
**Aimed at:** University Teachers  
**Duration:** 3 hours  
**Date:** April 24<sup>th</sup>, 2020

## 2.6. DEVELOPMENT OF TEACHING INNOVATION INSTRUMENTS & TOOLS BASED ON ICT AND ADVANCED LEARNING METHODOLOGIES

2020: **Activity:** YouTube Channel (TheMechTutor) with *Online Learning Pills* for the Mechanics of Materials course and to provide support to the University Teachers at the Instituto Politécnico de Tomar  
**Link:** <https://bit.ly/2XQTckq>

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**Activity:** Blog (TheMechTutor) to provide support to engineering students  
**Link:** [www.themechtutor.wordpress.com](http://www.themechtutor.wordpress.com)

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**Activity:** Use of Microsoft Teams, Forms & Moodle to deliver synchronous and asynchronous classes (distance learning). Preparation of contents and assessments for *Blended Learning* and implementing the *Flipped Classroom* methodology

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2019: **Activity:** Development of a webpage for the mechanical engineering department of the Instituto Politécnico de Tomar, Portugal  
**Link:** <https://politecnicotomar.sharepoint.com/teams/engenhariamecanica>

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2016-2019: **Activity:** Development of a webpage for the Engineering Division (ADM) of the Higher Colleges of Technology, United Arab Emirates  
**Link:** <https://hctuae.sharepoint.com/sites/ADMEngineering>

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**Activity:** Use of *Blackboard* as a Learning Management System (LMS) at the Higher Colleges of Technology, United Arab Emirates  
**Link:** <https://mylearn.hct.ac.ae/>

2010-2015: **Activity:** Development of a public webpage for the mechanical engineering department of the Instituto Politécnico de Tomar, Portugal  
**Link:** <https://estamecanica.wordpress.com>

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**Activity:** Use of *Moodle* as an Learning Management System at the Instituto Politécnico de Tomar, Portugal  
**Link:** <http://moodle1617.ipt.pt/>

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2009-2011: **Activity:** Development of a public webpage to support the courses lectured at the Instituto Politécnico de Tomar, Portugal  
**Link:** <https://sites.google.com/site/luisferreiraesta/home>

## 2.7. PARTICIPATION IN INNOVATIVE TEACHING PROJECTS

2020: **Project title:** Pedagogical innovation project (POCH-04-5267-FSE-000817)  
**Geographical area:** National  
**Type of call:** Competitive  
**Funding entity:** Portugal 2020 and European Social Fund  
**Start date:** September 1<sup>st</sup>, 2020  
**Duration:** 36 months  
**Dedication regime:** Part time  
**Type of participation:** Team member

## 2.8. TEACHING EXPERIENCE IN VOCATIONAL SCHOOLS

2006-2008: **Activity:** Trainer  
**Entity:** Technological Training School - FERNAVE, S.A., Portugal  
**Courses:** CNC Technology, CNC Milling Programming, CNC Turning Programming, Computer Aided Manufacturing, Final Project

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1999-2001: **Activity:** Trainer  
**Entity:** Technological Training School - FERNAVE, S.A., Portugal  
**Courses:** Technical Drawing I, Quality, Industrial Organization, Maintenance Organization

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2008-2009: **Activity:** Trainer  
**Entity:** Technological Training of the Metallurgy and Metalwork Industry - CENFIM S.A., Portugal

**Courses:** Technical Drawing

### 3. MANAGEMENT EXPERIENCE IN HIGHER EDUCATION

Since 2019: **Activity:** Chair of the B.Sc. and M.Sc. Programs in Mechanical Engineering

**Activity:** Elected member of the Pedagogical Council of the College of Technology of Abrantes

**Activity:** Member of the Accreditation Committee of the BSc. and MSc. in Mechanical Engineering

**Activity:** Member of Laboratory for Innovation in Distance Learning Education (LIED) <https://bit.ly/2zgtTHH>

**Entity:** Polytechnic Institute of Tomar (IPT), Portugal

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2017-2019: **Activity:** Engineering Division Chair

**Activity:** Member of the Higher Colleges of Technology National & International Institutional Accreditation Task Force

**Entity:** Higher Colleges of Technology - Abu Dhabi Men's, United Arab Emirates

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2016-2017: **Activity:** Program Chair of the Mechanical Department

**Activity:** Member of the FETS Council

**Activity:** Member of the committee "*Excellence in Academic Innovation*"

**Activity:** Member of the "*Final Wide Assessment 2017 Moderation Committee*"

**Activity:** Chair of the Classroom Violation Committee

**Activity:** Chair of the application committee for the scholarship of the Ministry of Education of the United Arab Emirates (SIEMENS NX). The proposal was positively evaluated, and the scholarship was awarded.

**Entity:** Higher Colleges of Technology - Abu Dhabi Men's, United Arab

Emirates

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2014-2015: **Activity:** Program Chair of the MSc. in Mechanical Engineering - Mechanical Design and Production

**Entity:** Polytechnic Institute of Tomar (IPT), Portugal

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2013-2015: **Activity:** Responsible for drafting the proposal for accreditation of the MSc. in Mechanical Engineering - Mechanical Design and Production

**Activity:** Member of the Accreditation Committee of the BSc. in Mechanical Engineering, School of Technology Abrantes

**Activity:** Member of the Pedagogical Council of the School of Technology of Abrantes

**Activity:** Member of the Coordination Committee of the BSc. in Mechanical Engineering

**Activity:** Member of the coordination team to integrate projects with industry. (Protocol with Municipality of Abrantes, School of Technology Abrantes)

**Activity:** Committee member for training, planning courses and postgraduate courses related to the BSc. in Mechanical Engineering

**Entity:** Polytechnic Institute of Tomar (IPT), Portugal

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2011-2015: **Activity:** Delegate of the Mechanical Engineering course in the International Relations Office (GRI)

**Activity:** Member of the Coordination Council of the BSc. in Mechanical Engineering

**Activity:** Elected member of the Mechanical Engineering Department Unit to represent the Teaching Assistances

**Activity:** Member of the Industrial Innovation Lab (LINE)

**Entity:** Polytechnic Institute of Tomar (IPT), Portugal

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2006-2015: **Activity:** Responsible for the development of innovative products lab

**Activity:** Member of the jury that evaluates the entrance in Higher Education for those over 23 years old in the Mechanical Engineering program

**Entity:** Polytechnic Institute of Tomar (IPT), Portugal

## 4. RESEARCH AND TRANSFER OF KNOWLEDGE EXPERIENCE

### 4.1. PUBLICATIONS IN SCIENTIFIC JOURNALS

2019: **Authors:** L. M. Ferreira, E. Graciani, F. Paris

**Title:** Predicting failure load of a Non-Crimp Fabric composite by means of a 3D finite element model including progressive damage

**Publication:** Composite Structures

**Publisher:** Elsevier

**Volume:** 225

**ISSN:** 0263-8223

**Metrics:** Q1 JCR, Q1 SJR

<https://www.sciencedirect.com/science/article/pii/S0263822316302616>

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2017: **Authors:** K. Zouhri, M. Chikhalsouk, L. M. Ferreira

**Title:** Numerical method of the TiO<sub>2</sub> porosity effect on dye sensitized solar cell exergy efficiency

**Publication:** Journal of Solar Energy

**Publisher:** Elsevier

**Volume:** 155, **Pages:** 920-933

**ISSN:** 0038-092X

**Metrics:** Q1 JCR, Q1 SJR

<https://www.sciencedirect.com/science/article/pii/S0038092X17305674>

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**Authors:** M. Chikhalsouk, K. Zouhri, O.Khondker, L. M. Ferreira

**Title:** Modelling and Simulation Swash Plate Pump Response Characteristics in Load Sensing and Pressure Compensated Hydraulic System

**Publication:** International Journal of Modern Engineering Research (IJMER)

**Publisher:** IJMER

**Volume:** 7

**Pages:** 6-20

**ISSN:** 2249-6645

**Metrics (AQCJ):** 7.21

[http://www.ijmer.com/papers/Vol7\\_issue8/Version-1/B7810620.pdf](http://www.ijmer.com/papers/Vol7_issue8/Version-1/B7810620.pdf)

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2016: **Authors:** L. M. Ferreira, E. Graciani, F. Paris  
**Title:** Three-dimensional finite element study of in-plane compressive behaviour and failure mechanism of non-crimp fabric composites  
**Publication:** Composite Structures  
**Publisher:** Elsevier  
**Volume:** 149  
**Pages** 106-113  
**ISSN:** 0263-8223  
**Metrics:** Q1 JCR, Q1 SJR  
<https://www.sciencedirect.com/science/article/pii/S0263822316302616>

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2014: **Authors:** L. M. Ferreira, E. Graciani, F. París  
**Title:** Modelling the waviness of the fibres in non-crimp fabric composites using 3D finite element models with straight tows  
**Publication:** Composite Structures  
**Publisher:** Elsevier  
**Volume:** 107  
**Pages** 79-87  
**ISSN:** 0263-8223  
**Metrics:** Q1 JCR, Q1 SJR  
<https://www.sciencedirect.com/science/article/pii/S0263822313003723>

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**Authors:** L. M. Ferreira, E. Graciani, F. París  
**Title:** Progressive damage analysis of NCF composites under compressive loading  
**Publication:** ECCM16: 16<sup>th</sup> European Conference on Composite Materials, Seville, España  
**Pages** 56  
**ISBN:** 978-84-616-9798-4  
**Metrics:** SCImago Journal rank (SJR) 0.119

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2010: **Authors:** L. M. Ferreira, E. Graciani, F. París  
**Title:** Three-dimensional finite element study of in-plane compression behaviour and failure mechanism of a non-crimp fabric composite  
**Publication:** ECCM14 - 14th European Conference on Composite Materials, Budapest, Hungria  
**Pages:** 1-10  
**DOI:** 10.13140/RG.2.1.4313.9449

## 4.2. CONTRIBUTIONS IN NATIONAL TECHNICAL JOURNALS

2013: **Author:** L. M. Ferreira.  
**Title:** Manual de CNC – Técnico de Maquinagem  
**Pages:** 112  
**Publisher:** FERNAVE, S.A.  
**Coordination:** Gabinete de Formação da Fernave S.A.

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2011: **Author:** L. M. Ferreira.  
**Title:** *Engenharia Assistida por Computador (CAE)*. Tecnologias disponíveis nos cinco setores chave da Região do Ribatejo  
**Publisher:** NERSANT – Associação empresarial do Ribatejo  
**Pages:** 42-43

## 4.3. CONTRIBUTIONS PRESENTED AT NATIONAL AND INTERNATIONAL CONFERENCES

2018: **Authors:** J. Al Sadi, Y. Nimir, L.M. Ferreira  
**Title:** Experimental Optimization: 3 Level Full Factorial Design and Variation of Processing Parameters for Polycarbonate Colors  
**Conference name:** ASET/AMDM 2018: Advanced Materials, Design and Manufacturing International Conference  
**Organising entity:** Higher Colleges of Technology, United Arab Emirates  
**Place of event:** Dubai, United Arab Emirates  
**Date:** February 5<sup>th</sup> – 6<sup>th</sup>, 2018  
**Pages:** 5  
**Geographical area:** International  
**Participation type:** Participatory – oral communication  
**DOI:** 10.1109/ICASET.2018.8376879  
**ISBN:** 978-1-5386-2399-2

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2013: **Authors:** L. M. Ferreira, E. Graciani, F. París  
**Title:** In-plane shear behaviour of non-crimp fabric laminates by means of 3D finite element analysis  
**Conference name:** COMPOSITES2013 | ECCOMAS IV – Thematic Conference on the Mechanical Response of Composites  
**Organising entity:** IDMEC/IST – Instituto de Ingeniería Mecánica, Portugal  
**Place of event:** Ponta Delgada, Azores (Portugal)  
**Date:** September 25<sup>th</sup> – 27<sup>th</sup>, 2013  
**Pages:** 1-11 (12 pages)

**Geographical area:** International  
**Participation type:** Participatory – oral communication  
**DOI:** 10.13140/RG.2.1.2216.7928

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2019: **Authors:** L. M. Ferreira, E. Graciani, F. París  
**Title:** Three-dimensional finite element model of a non-crimp fabric laminated using geometrically straight tows with crimped material properties  
**Conference name:** COMATCOMP-09  
**Organising entity:** AEMAC – Asociación Española de Materiales Compuestos  
**Place of event:** San Sebastián (Spain)  
**Date:** October 7<sup>th</sup> – 9<sup>th</sup>, 2009  
**Pages:** 967-971 (5 pages)  
**Geographical area:** International  
**Participation type:** Participatory – oral communication  
**DOI:** 10.13140/RG.2.1.3789.6563  
**ISBN:** 978-84-692-5483-7

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2019: **Authors:** F. Chaves, L. M. Ferreira, J. Gil, R. Rosado  
**Title:** CFD Simulation of Airflow Characteristics in a Multimedia Room  
**Conference name:** 10<sup>th</sup>, Air distribution in rooms; Roomvent 2007 SCANVAC Conference  
**Organising entity:** Scandinavian Federation of Heating, Ventilating and Sanitary Engineering Associations  
**Place of event:** Helsinki (Finlandia)  
**Date:** June 13<sup>th</sup> – 15<sup>th</sup>, 2007  
**Pages:** 539-546 (8 pages)  
**Geographical area:** International  
**Participation type:** Participatory – oral communication  
**ISBN:** 9789529989805

#### 4.4. PARTICIPATION IN R+D+I PROJECTS OBTAINED IN COMPETITIVE CALLS FROM PUBLIC AND PRIVATE ADMINISTRATIONS OR OTHER ENTITIES

2020: **R+D+i Project title:** Deformation prediction of composite material components after the curing and post curing process – DeCoMaCo.  
**Reference:** P18-FR-3855  
**Type of call:** National Program  
**Funding entity:** FEDER (European Fund for Regional Development) and PAIDI 2020 (Andalusian Plan for Research, Innovation and



Development), 2018 Call

**Participating entities:** Universidad de Sevilla, Spain

**Duration:** 36 months

**Description and goals:** Develop efficient procedures to reduce the cost associated with accomplishing de dimensional and geometric tolerances of the manufacturing of composite material components using alternative and complementary procedures: mould correction and post curing of the component under load

**Principal Researchers:** Enrique Graciani and Jesus Justo

**Research Team:** Federico París, Juan Carlos Marín, Elena Correa, Luis Ferreira

**Contract:** 89.800,00 euros

**Type of dedication:** Part time

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2011: **R+D+i Project title:** infoPME

**Type of call:** National Program

**Funding entity:** FEDER (European Fund for Regional Development) and SIAC

**Participating entities:** Polytechnic Institute of Tomar (IPT), Portugal and NERSANT

**Duration:** 05/09/2011 a 09/01/2012 (4 months)

**Description and goals:** Technological and Innovation Audits in the most relevant companies of the Ribatejo (Portugal) related to Civil, Mechanical, Materials Engineering

**Principal Researchers:** Carlos Campos Coelho, Luis Miguel Marques Ferreira

**Total number of Researchers:** 4

**Contract:** 17.750,00 euros

**Type of dedication:** Part time

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2004: **Title:** Inserts for CFRP Structures

**Type of call:** National Program

**Funding entities:** MOTORAVIA S.A. (Portugal), European Space Agency (ESA)

**Participating entities:** Instituto Politécnico de Tomar (Portugal), MOTORAVIA S.A. (Portugal) and European Space Agency (ESA)

**Duration:** 12 months

**Description and goals:** Coordination, design and manufacture of fastening devices for the machining of carbon fiber reinforced composite specimens

**Researchers:** Luis Miguel Marques Ferreira, Luis Manuel Silva Ferreira, Marco Leite, Carlos Coelho and Flávio Chaves

**Type of dedication:** Part time

#### 4.5. PARTICIPATION IN R+D+I PROJECTS OBTAINED IN NON-COMPETITIVE CALLS FROM PUBLIC AND PRIVATE ADMINISTRATIONS OR OTHER ENTITIES

2013: **R+D+I Project title:** Development of a module for high floor  
**Entity:** SOFALCA, Lda, Society of Cork Products. Lda., Portugal  
**Duration:** 4 months  
**Description and goals:** Preliminary study of the development of a module for high floor  
**Researchers:** Carlos Campos Coelho, Luis Miguel Marques Ferreira

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2011: **R+D+I Project title:** CI&DT 01/11 - Design of a Flag Beam and the supporting system  
**Entity:** MARTIFER, S.A., Portugal  
**Duration:** 15/03/2011 to 14/12/2012 (21 months)  
**Description and goals:** Design of a Flag Beam and the supporting system for the manufacturing of wind turbines using 3D FE analysis  
**Researchers:** Carlos Campos Coelho, Luis Miguel Marques Ferreira

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2005-2011: **R+D+I Project title:** Development of a module for high floor  
**Entity:** FINUPE, S.A, Portugal  
**Duration:** 7 years  
**Description and goals:** Mechanical testing of several wood floor panels according to the NBR 12047-50, NBR 11802 and NBR 15805  
**Entity:** FINUP, S.A., Portugal  
**Researchers:** Carlos Campos Coelho, Luis Miguel Marques Ferreira

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2010: **R+D+I Project title:** Energy certifications (residential and industrial buildings) within the RCCE  
**Entity:** Investigation Centre of the Higher School of Technology of Abrantes (CIESTA), Portugal  
**Duration:** 12 months  
**Description and goals:** Study regarding the energetic efficiency of several residential and industrial buildings within the RCCE - Regulations for the thermal behaviour of building  
**Researchers:** Luis Miguel Marques Ferreira and Flávio Chaves

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2004: **R+D+I Project title:** Hydrocyclone for the separation of water from

olive oil

**Entity:** Vitor Guedes S.A. (Portugal)

**Duration:** 12 months

**Description and goals:** CFD simulation of the behaviour of the water/olive oil mixture and optimization of the design of a hydrocyclone which allows the efficient separation of water from the olive oil

**Researchers:** Luis Miguel Marques Ferreira and Flávio Chaves

#### 4.6. TRAINING SHORT COURSES IN COMPANIES AND PUBLIC ADMINISTRATIONS

2011: **Course:** SolidWorks Introduction

**Entity:** Higher Colleges of Technology. United Arab Emirates

**Start date - end date:** March 21<sup>st</sup>, 2011 - March 31<sup>st</sup>, 2011

**Duration:** 8 hours

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2011: **Entity:** FRASAM - Fundições Do Rossio De Abrantes, S.A., Portugal

**Course:** Computer Aided Design

**Start date - end date:** March 21<sup>st</sup>, 2011 - March 31<sup>st</sup>, 2011

**Duration:** 20 hours

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**Entity:** FRASAM - Fundições Do Rossio De Abrantes, S.A., Portugal

**Course:** CNC Programing

**Start date - end date:** April 4<sup>th</sup>, 2011 - April 28<sup>th</sup> de 2011

**Duration:** 20 hours

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2008: **Entity:** Instituto Politécnico de Tomar, Portugal

**Course:** AVAC systems and ducts dimensioning

**Duration:** 8 hours

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2002: **Entity:** Associação Intermunicipal do Médio Tejo (AMMT), Portugal

**Course:** Autocad

**Duration:** 30 hours

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2000: **Entity:** CENFIM S.A., Portugal

**Course:** Computer Aided Design

**Duration:** 12 hours

#### 4.7. ORGANISING ACTIVITIES OF R+D+I

2017: **Title:** Subconference Chair of “ASET Conferences 2018 on Advanced Materials, Design and Manufacturing”  
**Place of event:** HCT-Dubai Men’s campus  
**Entity:** Higher Colleges of Technology, United Arab Emirates  
**Date:** February 6<sup>th</sup> - 7<sup>th</sup>, 2018

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**Title:** Coordination of the Professional Development Week Spring 2017  
**Entity:** Higher Colleges of Technology, United Arab Emirates  
**Date:** April 2017

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2014: **Title:** Local organizing committee “*ECCM16: 16<sup>th</sup> European Conference on Composite Materials*” and Chairman of the session: *Fracture and Damage of Composites, Steel Fibre Composites*  
**Place of event:** Seville, Spain  
**Entity:** Universidad de Sevilla, España  
**Date:** June 22<sup>nd</sup> – 26<sup>th</sup>, 2014

2009-2013: **Title:** Local organizing committee of the 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> de la “Mechanical Engineering week”  
**Entity:** Instituto Politécnico de Tomar, Portugal

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2011: **Title:** Organizing the workshop “SolidEdge NX”.  
**Entity:** Instituto Politécnico de Tomar, Portugal  
**Date:** June 2<sup>nd</sup>, 2011

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2011: **Title:** Organizing the workshop “*Silicon Valley comes to you*”  
**Entity:** Instituto Politécnico de Tomar, Portugal  
**Date:** November 18<sup>th</sup>, 2011

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2008: **Title:** Organizing the workshop “Projeto com SolidWorks”  
**Entity:** Instituto Politécnico de Tomar, Portugal  
**Date:** November 2008

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2007: **Title:** Organizing the workshop “SolidWorks Education 2007-2008”  
**Entity:** Instituto Politécnico de Tomar, Portugal  
**Date:** October 2007

#### 4.8. REVIEWER ACTIVITIES OF R+D+I PUBLICATIONS

2018: **Publication:** Elsevier Composites Part A: Applied Science and Manufacturing”.

**Reviewed publications:** 1

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2017: **Publication:** Advances in Mechanical Engineering.

**Reviewed publications:** 1

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2016: **Publication:** De Gruyter: Science and Engineering of Composite Materials.

**Reviewed publications:** 1

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2014 **Publication:** Elsevier Composites Part B: Engineering.

**Reviewed publications:** 4

#### 4.9. PARTICIPATION IN SCIENTIFIC, TECHNICAL AND ADVISORY COMMITTEES

2018: **Editorial board member:** Composite Materials (CM)

**Publication:** International Journal of Mechanical Engineering and Applications.

<http://www.sciencepublishinggroup.com/j/cm>

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2014: **Certified Guest Editor:** Structural Integrity of Mechanical Components

**Publication:** International Journal of Mechanical Engineering and Applications (IJMEA)

ISSN: 2330-023X (Print) ISSN:2330-0248 (Online).

<http://www.sciencepublishinggroup.com/j/ijmea>

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Since 2010: **Researcher of the research group TEP-131** (GERM - Group of Elasticity and Strength of Materials) of the University of Seville, Spain.

#### 4.10. GRANTS & SCHOLARSHIPS

2020: **Type:** Scholarship: Santander IE Best Practices in Digital Education for Teachers.

**Funding entity:** Santander IE Aid to Education Fund, España

**Date:** June 2020

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2014: **Type:** Posdoctoral: International Conference on Composite Materials: “CONGRESO/ECCM16 OI-987/93”

**Funding entity:** AICIA - Asociación de Investigación y Cooperación Industrial de Andalucía

**Start date – end date:** April 28<sup>th</sup>, 2014 – August 29<sup>th</sup>, 2014

**Duration:** 5 months

**Entities:** Group of Elasticity and Strength of Materials, Universidad de Sevilla (Spain)

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2010-2012: **Type:** Predoctoral: SFRH/PROTEC/49407/2009

<https://www.fct.pt/apoios/bolsas/concursos/protec>

**Funding entity:** FCT – Foundation for science and technology of the Ministry of Science and Education of Portugal

**Start date – end date:** June 2010 – June 2012

**Duration:** 2 years

**Entities:** Instituto Politécnico de Tomar (Portugal) and Group of Elasticity and Strength of Materials, Universidad de Sevilla (Spain)

## 5. LANGUAGE SKILLS

Mother tongue: Portuguese

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Other languages I: English

- Understanding (Listening and Reading): Excellent
  - Speaking (Spoken interaction and Production): Excellent
  - Writing: Excellent
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Other languages II: Spanish

- Understanding (Listening and Reading): Excellent
- Speaking (Spoken interaction and Production): Excellent
- Writing: Excellent

## 6. COMPUTER SKILLS

**CAD:** Autocad®, SolidWorks®, Catia®, Fusion 360®, Inventor®, SIEMENS NX.

**CAE:** ANSYS®, Cosmos/M®, SolidWorks® Simulation, SIEMENS NX, SimCenter, MdSolids®, MSC Nastran/Patran

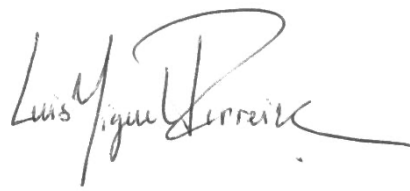
**CAM:** SIEMENS NX, Mastercam®, CamWorks®, HSMWorks®

**Other:** Microsoft Office® 365, Adobe Photoshop®, Mathematica®, Matlab®, Moodle, Blackboard, Youtube, iMovie

## 7. ADDITIONAL INFORMATION

Member of the European Society of Composite Materials (ESCM).

Co-founder and managing shareholder of an engineering office dedicated to thermal studies and energy certification, OCTOGRAU, Lda (2009-2010).

A handwritten signature in black ink, appearing to read "Luis Miguel Ferrer". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Seville (Spain), 2020