

CURRICULUM VITÆ

LUIS MIGUEL MARQUES FERREIRA

June 2021

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PERSONAL INFORMATION

NAME: Luis Miguel Marques Ferreira
NATIONALITY: Portuguese
DATE OF BIRTH: October 31st, 1977
ADDRESS 1: Calle Ángel Rodríguez Castilla 9-24
41704 Dos Hermanas, Sevilla - Spain
ADDRESS 2: Rua Sofia de Mello Breyner nº2
2330-535 Entroncamento - Portugal
CONTACTS: (+34) 722 871 808
(+351) 917 826 554
luismmferreira@gmail.com | luismmferreira@ipt.pt
Linkedin: <https://www.linkedin.com/in/luisferreira77/>
YouTube: <https://bit.ly/2XQTckq>
Google Scholar: <https://bit.ly/2P3tjl5>
Blog: www.themechtutor.wordpress.com

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 behaviour 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 **19 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 6th, 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

2009: **Degree:** Diploma of Advanced Studies
Degree awarding entity: Universidad de Sevilla, Spain
Date of degree: June 26th, 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 15th, 2001
Qualification: 13

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

1.3. DISTINCTIONS, AWARDS & CERTIFICATIONS

2021: **Certification title:** Lecturer – University Staff Accreditation from ANECA – National Agency for Quality Assessment and Accreditation of Spain. #2021-2084
Date: June 16th, 2021

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 8th, 2020

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

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

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>

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

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

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.

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

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
-
- 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
-
- 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
-
- 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
-
- 2007: **Course title:** Training of trainers in entrepreneurship (16h)
Organising entity: GESENTREPRENEUR - Empreendedorismo Sustentável, Lda. Portugal.
Aimed at: University Teachers
-
- Course title:** Residential and occupational noise course (8h)
Organising entity: Polytechnic Institute of Tomar (IPT). Portugal.

Aimed at: University Teachers

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

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 4th, 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

2017: **Conference title:** Engineering the Future Symposium 2017 – Transforming Engineering Education
Organising entity: Higher Colleges of Technology, Dubai, United Arab Emirates
Date: April 6th, 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

2017: **Conference title:** ABET Symposium 2017 – Citizen Tech – Technical Programs, Reshaping Society
Organising entity: ABET, Baltimore MD, USA
Date: April 20th-21st, 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

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

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 23rd, 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 24th, 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 28th 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 18th-19th, 2015
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- 2014: **Conference name:** ECCM16: 16th 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 22nd – 26th, 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 25th – 27th, 2013
-
- 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 7th – 10th, 2010
-
- 2010: **Conference name:** Congresso de Indústria Metalúrgica e Electromecânica
Organising entity: CENFIM – Centro de Formação Profissional da Indústria Metalúrgica e Metalmeccânica, Portugal
Place of event: Tomar, Portugal
Type of participation: Attendee
Date: November 17th – 18th, 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

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

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

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

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

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

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

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

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

2.5.COURSES, SEMINARS & WEBINARS FOR UNIVERSITY TEACHERS TRAINING

2021: **Seminar title:** Teaching Techniques: Blended Learning
Entity: Instituto Politécnico de Tomar, Portugal
Scope: Explores the various aspects of blended learning and provide guidelines to create a blended classroom that meets students' diverse learning needs.
Aimed at: University Teachers
Duration: 3 hours
Date: February 2nd, 2021

Course title: Pedagogical innovation course (2nd 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: February 3rd – 24th, 2021

2020: **Course title:** Pedagogical innovation course (1st 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 7th – 22nd, 2020

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 8th, 2020

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 24th, 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>

Activity: Blog (TheMechTutor) to provide support to engineering students
Link: www.themechtutor.wordpress.com

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

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>

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>

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>

Activity: Use of *Moodle* as an Learning Management System at the Instituto Politécnico de Tomar, Portugal

Link: <http://moodle1617.ipt.pt/>

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 1st, 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

1999-2001: **Activity:** Trainer

Entity: Technological Training School - FERNAVE, S.A., Portugal

Courses: Technical Drawing I, Quality, Industrial Organization, Maintenance Organization

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 1:** Chair of the B.Sc. and M.Sc. Programs in Mechanical

Engineering

Activity 2: Elected member of the Pedagogical Council of the College of Technology of Abrantes

Activity 3: Member of the Accreditation Committee of the BSc. and MSc. in Mechanical Engineering

Activity 4: Member of Laboratory for Innovation in Distance Learning Education (LIED) <https://bit.ly/2zgtTHH>

Entity: Polytechnic Institute of Tomar (IPT), Portugal

2017-2019: **Activity 1:** Engineering Division Chair

Activity 2: 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

2016-2017: **Activity 1:** Program Chair of the Mechanical Department

Activity 2: Member of the FETS Council

Activity 3: Member of the committee "*Excellence in Academic Innovation*"

Activity 4: Member of the "*Final Wide Assessment 2017 Moderation Committee*"

Activity 5: Chair of the Classroom Violation Committee

Activity 6: 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

2014-2015: **Activity 1:** Program Chair of the MSc. in Mechanical Engineering - Mechanical Design and Production

Entity: Polytechnic Institute of Tomar (IPT), Portugal

2013-2015: **Activity 1:** Responsible for drafting the proposal for accreditation of the MSc. in Mechanical Engineering - Mechanical Design and Production

Activity 2: Member of the Accreditation Committee of the BSc. in Mechanical Engineering, School of Technology Abrantes

Activity 3: Member of the Pedagogical Council of the School of Technology of Abrantes

Activity 4: Member of the Coordination Committee of the BSc. in Mechanical Engineering

Activity 5: Member of the coordination team to integrate projects with industry. (Protocol with Municipality of Abrantes, School of Technology Abrantes)

Activity 6: Committee member for training, planning courses and postgraduate courses related to the BSc. in Mechanical Engineering

Entity: Polytechnic Institute of Tomar (IPT), Portugal

2011-2015: **Activity 1:** Delegate of the Mechanical Engineering course in the International Relations Office (GRI)

Activity 2: Member of the Coordination Council of the BSc. in Mechanical Engineering

Activity 3: Elected member of the Mechanical Engineering Department Unit to represent the Teaching Assistances

Activity 4: Member of the Industrial Innovation Lab (LINE)

Entity: Polytechnic Institute of Tomar (IPT), Portugal

2006-2015: **Activity 1:** Responsible for the development of innovative products lab

Activity 2: 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

2020: **Authors:** C. G. Marques, A. Mata, A. Manso, H. Pestana, L. M. Ferreira, M. R. Nunes, P. Santos

Title: Inovar em Tempos de Pandemia: Criação de um Curso de Inovação Pedagógica no Ensino Superior

Volume: 8, N.º 4, 2020 **Pages:**206-217

Publisher: Revista UI_IPSantarém
ISSN: 2182-9608
<https://revistas.rcaap.pt/uiips/>

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>

2017: **Authors:** K. Zouhri, M. Chikhalsouk, L. M. Ferreira
Title: Numerical method of the TiO₂ 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>

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 (AQJ): 7.21
http://www.ijmer.com/papers/Vol7_issue8/Version-1/B7810620.pdf

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>

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>

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

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.

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.PUBLISHED BOOKS

2020: **Author:** L. M. Ferreira
Title: Manual Essencial de CNC – Técnicos de Maquinagem
Pages: 172
ISBN: 979-8561879975

Publisher: Independently Published – Amazon.com

4.4.CONTRIBUTIONS PRESENTED AT NATIONAL AND INTERNATIONAL CONFERENCES

- 2021: **Authors:** L. M. Ferreira
Conference name: II Encontro de Educação
Title: Ambientes de trabalho apoiados pela tecnologia
Website: <http://www.encontroeducacao.ipt.pt>
Organising entity: Instituto Politécnico de Tomar, Portugal
Place of event: Online
Date: April 23rd, 2021
Geographical area: National
Participation type: Invited Speaker
DOI: 10.13140/RG.2.2.11632.38408
-
- 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 25th – 27th, 2013
Pages: 1-11 (12 pages)
Geographical area: International
Participation type: Participatory – oral communication
DOI: 10.13140/RG.2.1.2216.7928
-
- 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 7th – 9th, 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
-
- 2019: **Authors:** F. Chaves, L. M. Ferreira, J. Gil, R. Rosado
Title: CFD Simulation of Airflow Characteristics in a Multimedia Room

Conference name: 10th, 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 13th – 15th, 2007
Pages: 539-546 (8 pages)
Geographical area: International
Participation type: Participatory – oral communication
ISBN: 9789529989805

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

2021: **R+D+i Project title:** CRASH – Development of a high precision reconstruction system design to be used in a professional simulation environment related with real crash events – Notice 12/SI/2020
Type of call: System of Incentives to research and technological development – Copromotion projects – International Partnerships
Funding entity: FEDER (European Fund for Regional Development) and Portugal 2020
Participating entities: Sketchpixel – Multimedia & Visual Effects Lda.¹, Instituto Politécnico de Tomar², Instituto Politécnico de Leiria³, Portugal & National Technical University of Ukraine – Igor Sikorsky Kyiv Polytechnic Institute⁴
Duration: 01/09/2020 – 31/03/2023 (29 months)
Description and goals: The CRASH project aims to develop a high precision system designed to be used in a professional simulation environment that will allow its users to reconstruct road traffic accidents. The development of this system must be accurate enough so that the resulting reconstructions are able to reproduce, as closely as possible, the real crash events that occurs during the road traffic accident.
Promoter: Sketchpixel – Multimedia & Visual Effects Lda
Research Team: Miguel Abreu¹, Cristina Fernandes¹, Nuno Abreu¹, Miguel Pereira¹, António Costa¹, Sandra Jardim², João Patrício², Luis Miguel Ferreira², Luis Miguel Merca Fernandes², António Manso², Fernando Sérgio Rodrigues², Carlos Manuel Rabadão³, Paulo Jorge Loureiro³, Sílvio Priem Mendes³, Sérgio Pereira Santos³, Carlos Ferreira³, Beatriz Piedade³, Joel Vasco³, Oleksandr Koval⁴, Iryna Husyeva⁴, Vadym Shpuryk⁴, Oleksii Shadenko⁴, Ivan Varava⁴, Anatol Demchyshyn⁴, Svitlana Shpavalova⁴, Iryna Myklailova⁴
Contract: 984.057,04 euros
Type of dedication: Part time

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

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 - 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

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

4.6. 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

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

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

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

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 an hydrocyclone which allows the efficient separation of water from the olive oil
Researchers: Luis Miguel Marques Ferreira and Flávio Chaves

4.7. 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 21st, 2011 - March 31st, 2011
Duration: 8 hours

2011: **Entity:** FRASAM - Fundições Do Rossio De Abrantes, S.A., Portugal
Course: Computer Aided Design
Start date - end date: March 21st, 2011 - March 31st, 2011
Duration: 20 hours

Entity: FRASAM - Fundições Do Rossio De Abrantes, S.A., Portugal
Course: CNC Programing
Start date - end date: April 4th, 2011 - April 28th de 2011
Duration: 20 hours

2008: **Entity:** Instituto Politécnico de Tomar, Portugal
Course: AVAC systems and ducts dimensioning
Duration: 8 hours

2002: **Entity:** Associação Intermunicipal do Médio Tejo (AMMT), Portugal
Course: Autocad
Duration: 30 hours

2000: **Entity:** CENFIM S.A., Portugal
Course: Computer Aided Design
Duration: 12 hours

4.8.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 6th - 7th, 2018

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

2014: **Title:** Local organizing committee “*ECCM16: 16th 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 22nd – 26th, 2014

2009-2013: **Title:** Local organizing committee of the 7th, 8th and 9th de la

“Mechanical Engineering week”
Entity: Instituto Politécnico de Tomar, Portugal

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

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

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

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

4.9. REVIEWER ACTIVITIES OF R+D+I PUBLICATIONS

2018: **Publication:** Elsevier Composites Part A: Applied Science and Manufacturing”.
Reviewed publications: 1

2017: **Publication:** Advances in Mechanical Engineering.
Reviewed publications: 1

2016: **Publication:** De Gruyter: Science and Engineering of Composite Materials.
Reviewed publications: 1

2014 **Publication:** Elsevier Composites Part B: Engineering.
Reviewed publications: 4

4.10. 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>

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>

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

4.11. 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

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 28th, 2014 – August 29th, 2014
Duration: 5 months
Entities: Group of Elasticity and Strength of Materials, Universidad de Sevilla (Spain)

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

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

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

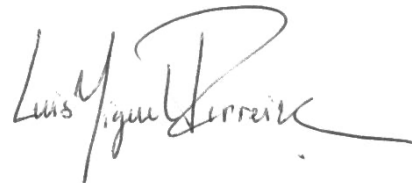
CAM: SIEMENS NX, Mastercam®, CamWorks®, HSMWorks®

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).



Seville (Spain), 2021