



# CURRICULUM VITAE

---

Octávio José Patrício Fernandes Inácio

Ph.D in Sound and Vibration (ISVR, UK)

MSc in Sound and Vibration Studies (ISVR, UK)

Mechanical Engineer (FEUP, PT)

Qualified as Specialist in Acoustical Engineering by the Portuguese Society of Engineers (OE)

Qualified as Specialist in Engineering by the Polytechnic Institute of Porto (IPP)

February 2020

# INDEX

BIOGRAPHICAL DATA .....	4
Personal Information .....	4
Brief Biography.....	4
Professional Qualification .....	4
Affiliations .....	4
Fellowships & Awards .....	4
ACADEMICAL EDUCATION .....	5
Higher Education.....	5
Preparatory and Secondary Education .....	5
Acoustics Professional Training.....	5
General Professional Training .....	6
ENGINEERING ACTIVITY .....	6
Positions.....	6
Selected Projects Portfolio.....	6
CONCERT HALLS, THEATRES AND AUDITORIA.....	6
MUSIC SCHOOLS.....	8
SCHOOLS.....	8
CHURCHES.....	9
MUSEUMS .....	10
STADIUMS AND SPORTS VENUES.....	10
HOSPITALS .....	11
HOUSING .....	11
ASSISTED LIVING RESIDENCES.....	12
INDUSTRY.....	12
COMMERCE .....	13
RESEARCH INSTITUTIONS .....	14
HOTELS.....	14
SERVICES.....	15
CONSULTANCY .....	16
ENVIRONMENT.....	16

RECORDING STUDIOS.....	16
ENTERTAINMENT .....	17
TRANSPORT .....	17
TEACHING EXPERIENCE .....	17
Career Evolution.....	17
Courses Curriculum Development .....	18
Pedagogical Material Development .....	18
Member of Academical Jurys .....	18
PhD Supervisions.....	19
MSc Supervisions .....	19
Invited Seminars and Lectures .....	20
SCIENTIFIC ACTIVITY.....	22
Meeting Organization .....	22
Financed Research Projects .....	23
Thesis .....	23
Publications in Books .....	24
Publications in Peer-Reviewed Journals.....	24
Publications in Conference proceedings .....	24
PERSONAL SKILLS .....	28
Languages.....	28
Comunication Skills .....	28
Management Skills .....	28
Additional Technical Skills .....	29
Computer Skills .....	29
Driver's Licence .....	29



# CURRICULUM VITAE

## BIOGRAPHICAL DATA

### PERSONAL INFORMATION

Octávio José Patrício Fernandes Inácio, married, born in 26th of March 1974 in Santo Ildefonso, Porto, Portugal, Citizen Card nº 10327549, valid until 21/02/2029.

### BRIEF BIOGRAPHY

Octávio Inácio received his degree in Mechanical Engineering from the University of Porto (FEUP) in 1997. His strong musical background as a classical guitarist led to a Master Degree in Sound and Vibration Studies at the Institute of Sound and Vibration Research (ISVR) of the University of Southampton, in 1998.

The year after, Octávio began a professional career totally dedicated to Acoustics and Vibrations, as an independent acoustical consultant, as well as an Acoustics lecturer and researcher at the School of Music and Performing Arts of the Polytechnic Institute of Porto. His continuous work in Acoustics consultancy led him to establish his own company – InAcoustics – in 2004, with work extending from industrial noise and vibration control to environmental and particularly, architectural acoustics.

In 2009 Octávio finished his PhD in Sound and Vibration Studies at the ISVR of the University of Southampton, with a thesis on the nonlinear dynamics of bowed musical instruments. Author and co-author of 20 scientific papers published in international journals and conference proceedings, his current research interests focus on architectural and musical acoustics, optimization methods applied to acoustical components and auralization techniques for room acoustics.

### PROFESSIONAL QUALIFICATION

**Senior Member** of the Portuguese Association of Engineers (*Ordem dos Engenheiros*) n. 039542/10250, in the **Mechanical Engineering** specialty.

Qualified as **Specialist in Acoustical Engineering** by the Portuguese Association of Engineers.

**Specialist in Engineering and Related Technics (Acoustics)** awarded by the Polytechnic Institute of Porto, Polytechnic Institute of Lisbon and Polytechnic Institute of Porto of Castelo Branco.

### AFFILIATIONS

Member of the Portuguese Association of Engineers (OE)

Member of the Portuguese Acoustical Society (SPA)

Member of the Brazilian Acoustical Society (SOBRAC)

### FELLOWSHIPS & AWARDS

**Specialist in Acoustical Engineering** awarded by the Portuguese Association of Engineers.

**Ph.D scholarship** given by the Foundation of Science and Technology of the Portuguese Ministry of Science, Technology and Higher Education.

*Award "Andrés Lara" para Jóvenes Investigadores (accesít)* given by the Spanish Acoustical Society, during the 34th National Congress on Acoustics, Bilbao, October de 2003.

**MSc scholarship** given by the Foundation of Science and Technology of the Portuguese Ministry of Science, Technology and Higher Education.

## ACADEMICAL EDUCATION

### HIGHER EDUCATION

- 2009      **Ph.D in Sound & Vibration** by the Faculty of Engineering and Applied Science of the University of Southampton (England), in the Institute of Sound and Vibration Research (ISVR) in partnership with the Technological and Nuclear Institute of Sacavém, Portugal. Funded by the Portuguese Ministry of Science, Technology and Higher Education.
- 1998      **Master of Science in Sound and Vibration Studies** by the Faculty of Engineering and Applied Science of the University of Southampton (England), in the Institute of Sound and Vibration Research (ISVR). Funded by the Portuguese Ministry of Science, Technology and Higher Education.
- 1992 a 1997      **Degree in Mechanical Engineering** (5 years course), by the Faculty of Engineering of the University of Oporto.

### PREPARATORY AND SECONDARY EDUCATION

- July 1995      Conclusion of the 5th grade of the Classic Guitar course of the Superior Conservatory of Music of Vigo, Spain.
- 1990 to 1992      Secondary education in Arts, Design and Architecture in Escola Soares dos Reis, Porto.
- 1984 to 1990      Basic and Preparatory Education in Colégio Luso-Francês, Porto.

### ACOUSTICS PROFESSIONAL TRAINING

- **"Short Course on Auralization"** organized during the congress Internoise 2010, lectured by Prof. Michael Vorländer and Prof. Peter Svensson;
- **"Short Course on Room Acoustics"** organized during the congress Internoise 2010, lectured by Dr. Eckhard Kahle;
- **"Short Course on Architectural Acoustics"** organized by the Institute of Sound and Vibration Research of the University of Southampton and by the Engineering Department of the University of Ferrara, 15th to 18th June 2004.
- Course **"Science et Musique: acoustique musicale, interaction entre sciences cognitives, physique et musique"**, organized by the Centre National de la Recherche Scientifique, Institut d'Études Scientifiques de Cargèse, 2004.

- Workshop “**Acoustic Measurements in Auditoria and Listening Rooms**”, organized by the National Physics Laboratory (UK) and the University of Surrey, July 2002.
- Participation on the congress “**Auditorium Acoustics 2002**”, Imperial College, London, with 18h vocational training, given by the Institute of Acoustics, July 2002.
- Course in **Architectural Acoustics** taken during the International Symposium Musical in Acoustics in Perugia, Italy (September of 2001), with Prof. Y. Ando.

#### GENERAL PROFESSIONAL TRAINING

- Course “**Uncertainty Calculation**” organized by CATIM, Centro de Apoio Tecnológico à Indústria Metalomecânica;
- **Professional Trainer Certificate** awarded by the Professional Training and Employment Institute according to the National System of Professional Certification.
- **Industrial Metrology**, promoted by ADITEC – Association for the Development and Technological Innovation, with a total of 18 hours training.
- Participation in the seminar “**Industry and the Environmental Certification**”, promoted by the Biotechnology School on the Catholic University Association.

#### ENGINEERING ACTIVITY

##### POSITIONS

Since April 2016	<b>Coordinator</b> of the Acoustics Engineering Specialization Committee of the Portuguese Association of Engineers.
Since September 2004	<b>CEO</b> of the acoustics design company <b>InAcoustics – Acoustical Engineering, Vibrations and Environment, Ltd.</b>
1/1/1999 to 31/10/2000	<b>Acoustics Consultant</b> in the company Absorsor Norte, Acoustical Engineering, Vibration and Environment, Ltd.

##### SELECTED PROJECTS PORTFOLIO

Responsible for the realization of acoustical engineering projects, from room acoustics to noise and vibration control and for the coordination of project teams, at both national and international level. Some featured projects:

---

##### CONCERT HALLS, THEATRES AND AUDITORIA

- **PENAFIEL CULTURAL CENTER**, Penafiel – Galeria Gabinete – Acoustical design project and scenic equipment design.
- **CONVENTION AND CULTURAL SPACE IN THE S. FRANCISCO CONVENT IN COIMBRA** – Arch. Carrilho da Graça – Acoustical Design Project of a 1200 seat Multipurpose Room (Concerts, Theatre and Conferences).

- VIRTUAL REALITY CENTRE (ROBINSON FOUNDATION), Portalegre – Arch. Eduardo Souto de Moura and Arch. Graça Correia – Acoustical project of the Robinson Foundation Buildings Requalification in Auditoria for the Music Conservatoire and the School of Hospitality.
- BANDSTAND AND ACOUSTIC SHELL, Trofa – Carvalho Araújo – Acoustical design project and requalification of the parks Nossa Senhora das Dores and Dr. Lima Carneiro.
- PORTO MUSIC CONSERVATOIRE – Arch. Manuel Fernandes de Sá – Acoustical design project of the remodelling and requalification of the School Rodrigues de Freitas in Music Conservatoire.
- ÍLHAVO CULTURAL CENTRE, Ílhavo – Arch. Ilídio Ramos – Acoustical design project.
- BILBAO BISKAIKUTXA, PARANINFO DE LA UNIVERSIDAD DEL PAÍS VASCO, Bilbao, Spain – Arch. Álvaro Siza Vieira – Acoustical design project (amphitheater).
- OVAR ARTS CENTRE – Arch. João Rapagão – Acoustical design project.
- CONDEIXA CULTURAL CENTRE, Condeixa – Arch. Francisco Barata Fernandes – Acoustical design project of a multipurpose room.
- OEIRAS CONGRESS AND EXHIBITION CENTRE, Oeiras – Luís S. Neto Arquitectos e Associados – Acoustical design project.
- PORTUGUESE CATHOLIC UNIVERSITY, Porto – Art Metro - Arquitectos Associados – Acoustical design project of the Auditório Ilídio Pinho remodelling for conference room.
- SALÃO CENTRAL EBORENSE, Évora – Acoustical design project of a multipurpose room.
- CASCAIS URBAN INTERPRETATION CENTRE, Cascais – Arch. Pedro Pacheco – Acoustical design project.
- EDUARDO BRAZÃO CINETHEATRE, Valadares – Arch. Joaquim Massena – Acoustical design project of the building's requalification.
- CASA DA MOAGEM – FUNDÃO CULTURAL CENTRE, Fundão – Arch. Miguel Correia, Future Architecture Thinking – Acoustical design project.
- BATALHA CINEMA, Porto – NERALP - Arquitectura, Engenharia e Construções – Acoustical design project.
- VODAFONE HEADQUARTERS, Lisbon – Acoustical consultancy to the execution project of the auditorium and training rooms.
- BRAGANÇA MUNICIPAL THEATRE, Bragança – Project and construction work supervision in the Acoustics speciality.
- LISBON ANCIENT MUSIC ACADEMY, Lisbon – Acoustical design project of the auditorium.
- COVILHÃ ARTS CENTRE, Covilhã – Preparation of the acoustical project guidelines.
- ALTICE FORUM BRAGA, Braga – Barbosa & Guimarães – Acoustical and eletroacoustical design project.
- MADALENA AUDITORIUM, Azores – Sousa Lima & Rocha Reis – Acoustical design project.
- ÁGUEDA ARTS CENTRE, Águeda – AND-RÉ Architecture – Acoustical design project.



- MUNICIPAL AUDITORIUM OF PAREDES, Paredes – Spaceworkers – Acoustical design project for an auditorium proposal.

---

#### MUSIC SCHOOLS

- SINTRA MUSIC CONSERVATORY, Sintra – Urban Prime – Acoustical design project.
- SINTRA MUSIC CONSERVATORY, Sintra – ARX architects – Preliminary study of acoustical design project of the new facilities in Palácio da Fidalga.
- OPORTO MUSIC CONSERVATORY | RODRIGUES DE FREITAS SECONDARY SCHOOL, Porto – Arch. Manuel Fernandes de Sá – Acoustical design project.
- VILAR DO PARAÍSO MUSIC SCHOOL, Vila Nova de Gaia – Arch. Joaquim Massena – Acoustical design project.
- ESMAE (Building D), Porto – Preparation of the acoustical project guidelines.
- ESMAE, Porto – Acoustic correction project to classrooms and recording studios.
- LOULÉ MUSIC CONSERVATORY FRANCISCO ROSADO, Loulé – Victor Mestre | Sofia Aleixo Arquitectos – Acoustical design project.

---

#### SCHOOLS

- EXPANSION OF THE PORTO BUSINESS SCHOOL OF THE PORTUGUESE CATHOLIC UNIVERSITY, Porto – Arch. Álvaro Siza Vieira – Acoustical design project.
- RODRIGUES DE FREITAS SECUNDARY SCHOOL, Porto – Arch. Manuel Fernandes de Sá – Acoustical design project.
- MERCADO CULTURAL DO CARANDÁ MUSIC SCHOOL, Braga – Arch. Eduardo Souto de Moura – Acoustical design project.
- SANTA MARIA NURSING SCHOOL, Porto – Ganja Arquitectos Associados – Acoustical design project.
- COMBATENTES EDUCATIONAL CENTER, Ovar – Cannatà & Fernandes – Acoustical design project.
- SOARES DOS REIS HOTEL AND TOURISM SCHOOL, Porto – Arch. Carlos Prata – Acoustical design project.
- PONTE DE SÔR SECONDARY SCHOOL, Portalegre – Arqwork Arquitectura – Acoustical design project.
- EMÍDIO NAVARRO SECONDARY SCHOOL, Viseu – Arch. Francisco Barata e Arch. Casal Ribeiro – Acoustical design project.
- UNIFICADO DE ALVARENGA EDUCATIONAL CENTER, Brazil – Brasil Arquitetura – Acoustical design project.
- LATINO COELHO SECONDARY SCHOOL, Lamego – Arch. Francisco Barata Fernandes e Arch. Hélder Casal Ribeiro – Acoustical design project.
- D. EGAS MONIZ SECONDARY SCHOOL, Resende – Arch. Francisco Barata Fernandes – Acoustical design project.
- CASTÊLO DA MAIA SECONDARY SCHOOL, Maia – J. M. Carvalho Araújo – Acoustical design project.



- MARCO DE CANAVEZES SECONDARY SCHOOL, Marco de Canavezes – Arch. Nuno Lacerda Lopes – Acoustical design project.
- FELGUEIRAS SECONDARY SCHOOL, Felgueiras – Arch. Virgínio Moutinho – Acoustical design project.
- BAIÃO SECONDARY SCHOOL, Baião – Arch. Virgínio Moutinho – Acoustical design project.
- CENTRO ESCOLAR MOREIRA DE CÓNEGOS, Guimarães – Cannatà & Fernandes – Acoustical design project.
- CAMPO MAIOR SECONDARY SCHOOL, Campo Maior – Arqwork Arquitectura – Acoustical design project.
- GONDOMAR SECONDARY SCHOOL, Gondomar – Arch. Carlos Prata – Acoustical design project.
- CLARA DE RESENDE SECONDARY SCHOOL, Porto – Arch. Carlos Prata – Acoustical design project.
- AROUCA SECONDARY SCHOOL, Arouca – J. M. Carvalho Araújo – Acoustical design project.
- BALTAR BASIC SCHOOL, Paredes – Arch. Carlos Nuno Lacerda – Acoustical design project.
- DIGITAL CREATIVITY CENTRE OF THE ARTS SCHOOL OF THE PORTUGUESE CATHOLIC UNIVERSITY, Porto – Arch. Álvaro Siza Vieira – Acoustical design project.
- TETRAPI SECONDARY SCHOOL, Azores – Arch. Jorge Costa – Acoustical design project.
- CAROLINA MICHAELIS SECONDARY SCHOOL, Porto – Arch. Manuel Fernandes de Sá – Acoustical design project.
- ROCHA PEIXOTO SECONDARY SCHOOL, Póvoa de Varzim – Arch. José Gigante – Acoustical design project.
- D. PEDRO V SECONDARY SCHOOL, Lisbon – Bak Gordon Arquitectos – Acoustical design project.
- GARCIA DE ORTA SECONDARY SCHOOL, Porto – Bak Gordon Arquitectos – Acoustical design project.
- GONÇALVES ZARCO SECONDARY SCHOOL, Matosinhos – Arch. Carlos Prata – Acoustical design project.
- ANTÓNIO SÉRGIO SECONDARY SCHOOL, Vila Nova de Gaia – Arch. Carlos Prata – Acoustical design project.
- AURÉLIA DE SOUSA SECONDARY SCHOOL, Porto – Arch. Carlos Prata – Acoustical design project.
- SERRA DO PILAR SCHOOL CAMPUS, Vila Nova de Gaia – Arch. Joaquim Massena – Acoustical design project.
- SCHOOL OF HEALTH TECHNOLOGY, Vila Nova de Gaia – Acoustical design project.
- SOARES DOS REIS SECONDARY SCHOOL, Porto – Arch. Carlos Prata – Acoustical design project.
- S. MARTINHO SECONDARY SCHOOL, Madeira – Acoustical design project.
- ESE, Porto – Acoustical design project of classrooms.
- Primary School EB1, Sernancelhe – Arch. Adalberto Dias – Acoustical design project.

---

#### CHURCHES

- SÃO FRANCISCO CHURCH, Coimbra – Arch. Gonçalo Byrne e BBarquitectos – Acoustical design project.



- SÃO FRANCISCO CHURCH, Évora – Arch. Adalberto Dias – Acoustical design project of the building's restoration and expansion.
- HOPE COMMUNITY CHURCH, Canada – Acoustical design project to improve the speech intelligibility.
- NOSSA SENHORA DOS NAVEGANTES CHURCH, Lisbon – Arch. José Dias Coelho – Acoustical design project.
- POUSOS CHURCH, Leiria – Arch. Alexandra Cantante – Acoustical design project.
- FÁTIMA SANCTUARY – CHAPEL OF THE IMMACULATE HEART OF MARY, Fátima – Sardoeira & Delgado – Acoustical design project.

---

## MUSEUMS

- BRAZIL PAVILLION IN EXPO DUBAI 2020, Dubai – Ben-Avid + JPG.ARQ + MMBB Arquitetos – Acoustical design project.
- CASA DO CINEMA MANOEL DE OLIVEIRA, Porto – Arch. Álvaro Siza Vieira – Acoustical design project.
- WATER PAVILLION, Porto – Arch. Alexandre Burmester – Acoustical design project.
- MUSEUM OF CONTEMPORARY DESIGN AND APPLIED ARTS AND MUSEUM OF L'ÉLYSÉE, Suíça – Arch. Aires Mateus – Acoustical and eletroacoustical design project.
- OLIVER DEBRÉ CONTEMPORARY ART CENTER, France – Arch. Francisco Aires Mateus – Acoustical design project.
- INTERNATIONAL CONTEMPORARY SCULPTURE MUSEUM AND ABADE PEDROSA MUNICIPAL MUSEUM, Santo Tirso – Arch. Álvaro Siza Vieira and Arch. Souto de Moura – Acoustical design project.
- NADIR AFONSO FOUNDATION, Chaves – Arch. Álvaro Siza Vieira – Acoustical design project.
- MANUEL CARGALEIRO ARTS WORKSHOP-MUSEUM, Seixal – Arch. Álvaro Siza Vieira – Acoustical design project.
- ATELIER-MUSEUM JÚLIO POMAR, Lisbon – Arch. Álvaro Siza Vieira – Acoustics audit.
- MUSEUM OF CONTEMPORARY ART | ADVANCED STUDIES INSTITUTE | NUCLEUS OF VIOLENCE STUDIES, Brazil – Arch. Paulo Mendes da Rocha – Acoustical design project.

---

## STADIUMS AND SPORTS VENUES

- ARENA DUNAS, Brazil – Supervision and final check of the electroacoustics project.
- VIANA DO CASTELO SPORTS PAVILLION, Portugal – Arch. Eduardo Souto de Moura – Acoustics consultancy and construction work supervision.
- STADT ZÜRICH, Switzerland – Arch. Eduardo Souto de Moura – Competition acoustical and electroacoustic design.
- ANTEL ARENA, Uruguay – Metro Arquitetos – Competition acoustical and electroacoustic design.
- MATOSINHOS SPORTS PAVILLION, Portugal – Matosinhos Municipality – Acoustical treatment project.

- ARENA LUANDA, Angola – Victor Martins Arquitectos – Competition acoustical and electroacoustic design.
- BERLIN SPORSTALL, Germany – Aínda Arquitectura – Competition acoustical design.
- SOLINCA GYMNASIUM, Maia – Arch. Inês Coelho, Sonae RP – Acoustical design project.

---

#### HOSPITALS

- MANAUS HOSPITAL, Brazil – Arch. Thomé de M. Raposo – Acoustical design project.
- CREMATORIUM INTERCOMMUNAL DE BRUSSEL, Belgium – Arch. Eduardo Souto de Moura – Acoustical design project.
- HOSPITAL LUSÍADAS PORTO, Porto – Arch. Carlos Prata – Acoustical design project.
- NOVA VIDA PHYSIOTHERAPY CENTRE, Angola – FA Arquitectos – Acoustical design project.
- CUF INSTITUTE, Porto – Arch. Carlos Prata – Acoustical design project.
- HOSPITAL LUSÍADAS LISBOA, Lisbon – Acoustical design project.

---

#### HOUSING

- HOUSE IN GRANJA, Vila Nova de Gaia – Cannatà & Fernandes – Acoustical design project.
- BARÃO DE SANTOS PALACE, Lisbon – Patrícia Barbas e Diogo Lopes Arquitectos – Acoustical design project of the building's restoration and expansion.
- HOUSE IN PRAÇA DE LIÉGE, Porto – Arch. Luísa Penha – Acoustical evaluation.
- HOUSE IN GRÂNDOLA, Grândola – Arch. Camilo Rebelo – Acoustical and eletroacoustical design project.
- VILLA ECHCHERKI AU CASABLANCA, Morocco – Acoustical design project.
- CITYLIFE, Italy – Arch. Eduardo Souto de Moura – Acoustical design project of a 36-floor building.
- URBANIZAÇÃO QUINTA DE STA. TERESA, Coimbra – Arch. Camilo Cortesão – Acoustical design project.
- URBANIZAÇÃO QUINTA DAS NOGUEIRAS, Coimbra – Arch. Camilo Cortesão – Acoustical design project.
- DOURO'S PLACE, Porto – Arch. Carlos Prata – Acoustical design project of the building's restoration and expansion.
- URBANIZAÇÃO QUINTA DA PORTELA, Coimbra – Arch. Camilo Cortesão – Acoustical design project.
- SÃO GIÃO HOUSES, Tomar – Aínda Arquitectura – Acoustical design project of the building's restoration.
- THE CORDON, Lisbon – Ana Costa, Arquitectura e Design – Acoustical design project of the building's restoration and expansion.
- CHALET FAIAL, Cascais – Patrícia Barbas e Diogo Lopes Arquitectos – Acoustical design project of the building's restoration and requalification
- EDIFÍCIO LIBERDADE 49, Lisbon – Ana Costa, Arquitectura e Design – Acoustical design project of the building's restoration and expansion.



- FLORA CHIADO APARTMENTS, Lisbon – VF Arquitectos – Acoustical design project of the building's restoration, retrofitting and expansion.
- PROMISE, CASA DO CASEIRO, Grândola – Atelier 1111 - Camilo Rebelo, Cristina Chicau e Patrício Guedes – Acoustical and eletroacoustical design project.

---

#### ASSISTED LIVING RESIDENCES

- CARLTON LIFE ASSISTED LIVING RESIDENCES, Porto – Arch. Carlos Prata – Acoustical design project.
- BOM SUCESSO ASSISTED LIVING RESIDENCES, Lisbon – Aires Mateus – Acoustical design project.
- CASCAIS GUIA ASSISTED LIVING RESIDENCES, Cascais – Aires Mateus – Acoustical design project.
- QUINTA DE SANTO ANTÓNIO ASSISTED LIVING RESIDENCES, Sintra – Aires Mateus – Acoustical design project.

---

#### INDUSTRY

- GENERAL CABLE, Pêro Pinheiro – Noise control project.
- SOGRAPE VINHOS HERDADE DO PESO EXPANSION, Vidigueira – Arch. José Carlos Cruz – Acoustical design project.
- JÚPITER SAKTHI INDUSTRIAL UNIT, Águeda – Arch. Alexandre Burmester – Acoustical design project.
- GRAN CRUZ ADEGA, Alijó – Design and implementation of a vibration control solution for the vibrating hoppers.
- GRAN CRUZ ADEGA, Alijó – Acoustical design project.
- RESIN FACTORY (REHABILITATION), Marinha Grande – Archs. Roberto Cremascoli, Edison Okumura, Marta Rodrigues – Acoustical design project.
- BOLLINGHAUS STEEL FACTORY, Marinha Grande – Ambient noise control project.
- ENERCON TURBINE BLADES FACTORY, Viana do Castelo – Arch. Inês Peschos – Acoustical design project and noise control project.
- BEER FACTORY, Porto – Studium – Acoustical design project.
- FATER, Custóias – Noise and vibration control project.
- LOGOPLASTE, Oliveira de Azeméis – Noise control project of a plastic containers company.
- LACTOGAL, Oliveira de Azeméis – Noise control project of a milk related production factory.
- CHOCAPALHA WINERY WAREHOUSE, Alenquer – Serôdio, Furtado & Associados – Acoustical design project.
- AMORIM & IRMÃOS, Santa Maria de Lamas – Noise control project of a cork production industry.
- CIARGA ARGAMASSAS SECAS, Maia – Low-frequency noise and vibration control project for a cement industry.

- BELFAMA INDÚSTRIA TÊXTIL, Vizela – Noise control project of a textile industry.
- PRONICOL PRODUTOS LÁCTEOS, Azores – Noise control project of a milk related production company.
- LIPOR III ORGANIC WASTE RECOVERY CENTRAL, Baguim do Monte – Full acoustical design project.
- CIMPOR, Souselas – Noise control project of several equipments in a cement industry.

---

#### COMMERCE

- WORLD OF WINE, Vila Nova de Gaia – Broadway Malyan e Fladgate – Acoustical design project.
- SOLINGEN SHOPPING CENTRE, Germany – Acoustics audit to a commercial building.
- PASSEIO DAS ÁGUAS SHOPPING, Brazil – Acoustics audit to a commercial building.
- SONAE-SIERRA COMERCIAL CENTER – Development of standards and acoustics audit.
- CONTINENTE MODELO, Évora – Central Arquitectos – Acoustical design project and noise control.
- CONTINENTE BOM DIA, Gueifães – Central Arquitectos – Acoustical design project and noise control.
- CONTINENTE MODELO, Salvaterra de Magos – Bruno Santa Marta & Rui Carreira Arquitectos – Acoustical design project and noise control.
- BOULEVARD LONDRINA SHOPPING, Brazil – Acoustics audit to a commercial building.
- LE TERRAZZE, Italy – Acoustics audit to a commercial building.
- UBERLÂNDIA SHOPPING, Brazil – Acoustics audit to a commercial building.
- RIBEIRA MARKET, Lisbon – Aires Mateus – Acoustical design project.
- CENTRO COMERCIAL COLOMBO, Portugal – Acoustics audit to a commercial building.
- MANAUARA SHOPPING, Brazil – Acoustics audit to a commercial building.
- GLI ORSI, Italy – Acoustics audit to a commercial building.
- PANTHEON PLAZA, Greece – Acoustics audit to a commercial building.
- PLAZA MAYOR, Spain – Acoustics audit to a commercial building.
- FRECCIA ROSSA, Italy – Acoustics audit to a commercial building.
- ALEXA, Germany – Acoustics audit to a commercial building.
- EL CORTE INGLÉS, Vila Nova de Gaia – Arch. Camilo Cortesão – Acoustical design project.
- RETAIL CENTER, Lisbon – Acoustical design project.
- TRANSPARENT BUILDING, Porto – Arch. Carlos Prata – Acoustical design project.
- RESTAURANT “O GAVETO”, Matosinhos – Serôdio, Furtado & Associados – Acoustical design project.
- SANDEMAN WINE CELLARS, Vila Nova de Gaia – Openbook Architecture – Acoustical design project.



- ADEGA CASA SARMENTO, Mealhada – Arch. Joaquim Portelas & Arch. Eduardo Souto de Moura – Acoustical design project.

---

#### RESEARCH INSTITUTIONS

- COMANDANTE FERRAZ ANTARTIC STATION, Keller Peninsula Antartica – Estúdio 41 – Acoustical design project.
- LANDSCAPE LABORATORY, Guimarães – Cannatà & Fernandes – Acoustical Design Project.
- VALE TECHNOLOGICAL CENTER, Brazil – Arch. Paulo Mendes da Rocha e Piratininga Arquitectos – Sound and video project (not constructed).
- UPTEC CREATIVE INDUSTRIES CENTRE (PINC), Porto – Arch. Carlos Prata – Acoustical design project.
- HEALTH SCIENCE CENTRE BIOMED III, Coimbra – Inês Lobo Arquitectos – Acoustical design project.
- UPTEC MAR, Porto – Arch. Adalberto Dias – Acoustical design project.

---

#### HOTELS

- HOTEL JAM, Lisbon – A2M – Acoustical design project.
- LE MONUMENTAL PALACE, Porto – Rodapé Arquitectos – Acoustical design project of the building's restoration.
- HOTEL VINCCI PORTO, Porto – Arch. José Carlos Cruz – Acoustical design project of the building's restoration and expansion.
- THE HOUSE RIBEIRA PORTO HOTEL, Porto – F.A. Arquitectos – Acoustical design project of the building's restoration.
- HOSTEL BLUESOCK, Porto – Arch. Ricardo Azevedo – Acoustical design project of the building's restoration, retrofitting and expansion.
- VIDAGO PALACE CLUB HOUSE, Vidago – Arch. Álvaro Siza Vieira – Acoustical licensing project.
- KRYSTAL PALACE HOTEL, Cameroon Republic – Arch. Xavier Cartron – Acoustical design project.
- TERMINUS HOTEL, Angola – FA Arquitectos – Acoustical design project.
- BOLSA DO PESCADO HOTEL, Porto – Arch. José Carlos Cruz – Acoustical design project.
- OLISSIPPO JOÃO XXI HOTEL, Lisbon – Arch. Falcão de Campos – Acoustical design project.
- SERRA DA ESTRELA INN, Covilhã – Arch. Eduardo Souto de Moura – Acoustical design project of the building's restoration.
- PRAIA D'EL REY MARRIOT HOTEL, Óbidos – HVAC system acoustical evaluation.
- RESEARCHERS RESIDENCE, Guimarães – Cannatà & Fernandes – Acoustical design project of the building's restoration and refurbishment.
- HOTEL RUA DE SÃO JOÃO, Porto – B229 Projectos – Acoustical design project of the building's restoration.

- DUAS PORTAS TOWNHOUSE, Porto – Arch. Luísa Penha – Acoustical design project of the building's restoration, retrofitting and expansion.
- DESCOBERTAS BOUTIQUE HOTEL, Porto – Arch. António Leitão Barbosa – Acoustical design project of the building's restoration.
- POUSADA DO PICOTE, Bragança – Cannatà & Fernandes – Acoustical design project of the building's restoration and expansion.
- HOTEL THE RESIDENT, Lisbon – Arch. Samuel Torres de Carvalho – Acoustical design project of the building's restoration and retrofitting.
- QUINTA DA CAÍDA, RURAL TOURISM, Bragança – Acoustical design project of the building's reconstruction and expansion.
- RUA DE TRÁS APARTMENTS, Porto – Arch. Joaquim Massena – Acoustical design project of the building's restoration.
- HOTEL CONVENTO DE SÃO DOMINGOS, Lisbon – GRCA - Arquitectura, Engenharia e Imobiliária – Acoustical design project of the building's restoration and retrofitting.
- HOTEL PALÁCIO ALMADA CARVALHAIS, Lisbon – Arch. Pedro Reis – Acoustical design project of the building's restoration and retrofitting.

---

#### SERVICES

- SONAE ARAUCO OPEN SPACES, Porto – Acoustic design of the 4 main sections of open space work areas.
- EDP II (HEADQUARTERS), Lisbon – ELEMENTAL – Acoustical design project.
- SONAE (HEADQUARTERS) RENOVATION AND EXPANSION - SONAE Business Park - Building 1A, Maia – Sousa Lima & Rocha Reis – Acoustical design project.
- SONAE (NEW SERVICES BUILDING) - SONAE Business Park - Building 4A, Maia – Barbosa & Guimarães – Acoustical design project.
- PORTUGUESE CHARTERED ACCOUNTANTS ASSOCIATION (OCC) FACILITIES, Porto – Nuno Bessa e Ricardo Azevedo – Acoustical design project of the building's restoration.
- PORTUGUESE CHARTERED ACCOUNTANTS ASSOCIATION (OCC) FACILITIES (EXPANSION), Lisbon – Benito Ramalho – Acoustical design project.
- PORTO SEGURO (NEW HEADQUARTERS), Brazil – Andrade Morettin Arquitetos – Acoustical design project.
- PEDRAS SALGADAS SPA TEA HOUSE, Vila Pouca de Aguiar – Arch. Álvaro Siza Vieira – Acoustical design project.
- CASA DO CANTE, Beja – J. M. Carvalho Araújo – Acoustical design project.
- LIBERDADE 240, Lisbon – Arch. Alexandre Burmester – Acoustical design project.
- OLYMPUS BUSINESS BUILDING, Angola – Arch. Mário Sequeira – Acoustical design project.



- BOA NOVA TEA HOUSE (RECONSTRUCTION), Leça da Palmeira – Arch. Álvaro Siza Vieira – Acoustical design project.
- COMPORTA DUNES CLUBHOUSE, Grândola – Arch. Eduardo Souto de Moura – Acoustical design project.
- CERRO KANHANGULO BUILDING, Angola – PLARQ Estudos de Arquitectura e Urbanismo – Acoustical design project.
- DOURO CAIS – Arch. N. J. Tasso de Sousa – Acoustical design project.
- OCEANO TOWERS, Angola – Acoustical design project.
- IMPRESA FACILITIES, Matosinhos – Acoustical design project of the old municipal slaughterhouse converting it into a business centre used by a Media company.
- OFFICE MALL, Paço de Arcos – Arquitectos SUA KAY – Acoustical design project of an office building.
- INSTITUTO PEDRO NUNES, Coimbra – Acoustical design project.
- TROFA CITY HALL, Trofa – Arch. José Carlos Nunes de Oliveira – Acoustical design project.

---

#### CONSULTANCY

- PICOTE INN, Miranda do Douro – Acoustical tests and consultancy to the project.
- BILBAO METRO STATION, Bilbao – Acoustics consultancy.
- CASA DA MÚSICA, Porto – Acoustics consultancy to the Obra Aberta concerts.
- CALDAS DA RAINHA MULTI-PURPOSE CENTRE, Caldas da Rainha – Acoustic specification report for Concept/Construction stage concourse.
- VODAFONE HEADQUARTERS, Lisbon – Acoustics audit.
- UNICER AUDITORIUM, Leça do Balio – Acoustics consultancy to the architecture project.

---

#### ENVIRONMENT

- BRIDGE OVER VCI, Porto – GEG – Sound impact minimization project in the vicinities of the bridge over VCI, Porto.
- ARRÁBIDA, Porto – Sound impact minimization project and acoustical tests.
- BUVIKA, Norway – Noise map in the surroundings of an industry development.

---

#### RECORDING STUDIOS

- HASSAN EL SHAFEI RECORDING STUDIO, Egypt – Acoustical design project.
- DURO D’OUVIDO RECORDING STUDIO, Vila Nova de Gaia – Estúdio Goma – Acoustical design project.
- SIC TV STUDIOS – Arch. Susana Mota Freitas – Acoustical design project of the TV recording studios of a Portuguese TV company.
- PORTO CANAL STUDIOS, Matosinhos – Arquicoral Arquitectura e Engenharia – Acoustical design project.



- RECORDING STUDIO OF ESMAE - ESCOLA SUPERIOR DE MÚSICA E DAS ARTES DO ESPECTÁCULO - PORTO POLYTECHNIC INSTITUTE, Porto – Acoustical design project.
- GRB RECORDING STUDIO, Coimbra – Acoustical design project.
- PURO SANGUE RECORDING STUDIO, Porto – Acoustical design project.

---

#### ENTERTAINMENT

- BAIXA BAR, Porto – Arch. José Carlos Cruz – Acoustical design project.
- DONA ROSA DISCOS, Braga – Central Arquitectos – Acoustical design project.
- BÔ ZEN BAR, Braga – Central Arquitectos – Acoustical design project.
- HOT CLUBE DE PORTUGAL, Lisbon – Arch. Francisco Aires Mateus – Acoustical design project.
- INSTALAÇÃO BAR, Porto – Arch. José Carlos Cruz – Acoustical design project.
- RIVE-ROUGE NIGHTCLUB, Lisbon – Aires Mateus – Acoustical design project.

---

#### TRANSPORT

- PORTO METRO STATION - AVENIDA DA LIBERDADE, Porto – Arch. Álvaro Siza Vieira – Acoustical and electroacoustical design project.
- PORTO METRO STATIONS - GALIZA; BOAVISTA/CASA DA MÚSICA; HOSPITAL DE SANTO ANTÓNIO – Arch. Eduardo Souto de Moura – Acoustical and electroacoustical design project.
- ALGERIA TRAIN STATION - DESERT CENTER AEROPORT, Algeria – Electroacoustical design project.
- ALGERIA TRAIN STATION - BOUGHEZOU, Algeria – Electroacoustical design project.
- ALGERIA TRAIN STATION - TISSEMILT, Algeria – Electroacoustical design project.

### TEACHING EXPERIENCE

#### CAREER EVOLUTION

Since January 2017	<b>Invited Associate Professor</b> at the Faculty of Human and Social Sciences of the NOVA University of Lisbon. Lecturer of Architectural Acoustics for Post-Graduate in Acoustic and Sound Studies.
From 2015 to 2018	<b>Invited Associate Professor</b> at the School of Music of the Polytechnic Institute of Lisbon. Lecturer of Room Acoustics and Signal Processing for Degree in Music Technologies.
Since 2015	<b>Associate Professor</b> at the School of Music and Performing Arts of the Polytechnic Institute of Oporto (currently on leave).
From 2011 to 2014	<b>Head</b> of the Production and Music Technologies Group of the School of Music, Arts and Performance of the Polytechnic Institute of Oporto.

Since September 2010	<b>Associate Professor</b> at the School of Music and Performing Arts of the Polytechnic Institute of Oporto – Acoustic courses of Music degree (currently on leave).
From 2009 to 2015	<b>Head</b> of the Musical Acoustics Laboratory (LAM) of the School of Music, Arts and Performance of the Polytechnic Institute of Oporto.
From 2004 to 2010	<b>Associate Professor</b> (equivalent) coordinating and lecturing Acoustics, Room Acoustics, Musical Acoustics and Organology in the Production and Music Technologies Degree and Music Degree of the School of Music, Arts and Performance of the Polytechnic Institute of Oporto.
From 2003 to 2009	<b>Technical director</b> of the Musical Acoustics Laboratory (LAM) of the School of Music, Arts and Performance of the Polytechnic Institute of Oporto.
From 2000 to 2003	<b>Lecturer</b> of the subjects of Acoustics and Organology I, II, III and IV of the Degree in Production of Music Technology in the School of Music, Arts and Performance of the Polytechnic Institute of Oporto.
1992 to 1997	<b>Teacher</b> of classical guitar in the School of Music Maiorff located in Maia, district of Porto.

#### COURSES CURRICULUM DEVELOPMENT

Design of the curriculum and syllabus of the Master Degree in Applied Acoustics and Audio Technology, co-authored, approved by the Ministry of Science, Technology and Higher Education at the School of Music, Arts and Performance of the Polytechnic Institute of Porto.

Design of the syllabus of the six courses of Acoustics in the Degree of Production and Music Technologies at the School of Music, Arts and Performance of the Polytechnic Institute of Porto.

Co-author of the adaptation of the curriculum of the degree in Music Production and Technology to the Bologna Process.

#### PEDAGOGICAL MATERIAL DEVELOPMENT

Preparation of the educational material to support the six courses of Acoustics in the Degree of Production and Music Technologies at the School of Music, Arts and Performance of the Polytechnic Institute of Porto.

#### MEMBER OF ACADEMICAL JURYS

- Member of the examination committee (external examiner) of Alberto Eduardo Artilheiro Ferreira's MSc thesis in Engineering Physics, titled "REAL TIME AUDIO SYSTEM FOR SNR IMPROVEMENT WITH APPLICATIONS TO DISTANT SPEECH RECOGNITION", at the Department of Physics of the *Instituto Superior Técnico*, in 2014;
- Member of the examination committee (external examiner) of Suse Patrícia Carvalho Ribeiro's MSc thesis in Multimedia titled "APPROACH TO THE SPATIALIZATION OF A PERCUSSION ENSEMBLE – THE DRUMMING GC CASE STUDY", at the Faculty of Engineering of the University of Porto, in 2012;
- Member of the examination committee (external examiner) of Domingos Manuel Machado Oliveira's MSc thesis in Science – Teacher Continuous Training in Physics and Chemistry, titled "SOUND WAVES IN THE

BASIC AND SECONDARY SCHOOL: PROPOSALS OF EXPERIMENTAL ACTIVITIES”, at the School of Sciences of the University of Minho, in 2012;

- Member of the examination committee (external examiner) of Diogo Miguel Moura dos Santos Almeida’s MSc thesis in Telecommunications and Electronic Engineering, titled “AUGMENTED REALITY AUDIO SYSTEM”, at the Department of Electronics, Telecommunications and Informatics of the Aveiro University, in 2011;
- Member of the examination committee (external examiner) of Elisa de Lurdes Oliveira Costa’s MSc thesis in Mechanical Engineering, titled “DYNAMICAL BEHAVIOUR OF GUITAR STRINGS”, at the Department of Mechanical Engineering of the Instituto *Superior Técnico*, in 2011.

#### PHD SUPERVISIONS

- Co-supervision of Francisco Xavier Mateus Pereira Lopes Santiago’s doctoral thesis, of the Doctoral Program of the Faculty of Social Sciences and Humanities of the Nova Lisbon University, Portugal, titled “EVALUATION OF THE STAGE ACOUSTICAL CONDITIONS PREFERENCES BY MUSICAL ENSEMBLES”;
- Co-supervision of Arlindo Ricarte Primo Júnior’s doctoral thesis of the Doctoral Program in Mechanical Engineering of the School of Engineering of the University of Minho, Portugal, titled “CHARACTERIZATION AND OPTIMIZATION OF A NEW MUSICAL PERCUSSION INSTRUMENT – PAPIROFONE – THROUGH MODELING BY THE FINITE ELEMENT METHOD AND EXPERIMENTAL MODAL ANALYSIS”;
- Co-supervision of Aida Rosalina da Silva e Sousa’s doctoral thesis of the Doctoral Program in Occupational Health and Safety of the Faculty of Engineering of the University of Porto, Portugal, titled “EXPOSURE TO NOISE AND ITS CONSEQUENCES – THE UNIVERSE OF MUSIC CONCERTS”;
- Co-supervision of Marcelo Santos Portela’s doctoral thesis of the of the Post-Graduate Program in Mechanical Engineering of the Federal University of Santa Catarina, Florianopolis, Brazil, titled “ACOUSTICAL PROPERTIES OF AMAZON WOOD FOR APPLICATION TO MUSICAL INSTRUMENTS”, presented and approved in September 2014;
- Co-supervision of Gustavo Afonso Nina Almeida’s doctoral thesis in Science and Technology of Arts – Computer Music, of the School of Arts of the Portuguese Catholic University, titled “INFLUENCE OF STAGE ACOUSTICS IN MUSICAL PERFORMANCE: A NEW PARADIGM IN THE SIMULATION OF ACOUSTICAL EVENTS FOR INTERACTIVE AURALIZATION WITH MUSICIANS”, presented and approved in July 2014.

#### MSC SUPERVISIONS

- Supervision of Rui Pedro Diogo Sampaio’s MSc thesis in Multimedia at the Faculty of Engineering of the University of Porto, Portugal, titled “IMPLEMENTATION OF A SIMULATED 3D SOUND FIELD BASED IN MEASURED IMPULSE RESPONSES”, presented and approved in October 2012, with 19 out of 20 marks;
- Co-supervision of Vítor Carlos Tadeia Rosão’s MSc thesis in Engineering Physics at the Faculty of Sciences of the Lisbon University, titled “CONTRIBUTION TO THE ACOUSTICAL QUALITY CHARACTERIZATION OF FADO HOUSES”, presented and approved in November 2012, with 17 out of 20 marks;
- Co-supervision of Francisco Xavier Mateus Pereira Lopes Santiago’s MSc thesis in Environmental and Architectural Acoustics at the Universidad Ramon Llull – Arquitectura e Engenharia LA SALLE in Barcelona, titled “PORTUGUESE THEATRES AND CONCERT HALLS ACOUSTICS”, presented and approved in November 2007, with 18 out of 20 marks;

## INVITED SEMINARS AND LECTURES

February 2020	Invited speaker for the session “Room for Expression” held at the Order of Architects Regional Section of the North, promoted by Knauf.
November 2019	“Validation by auralization”, theme presented at the CONCRETA 2019 event held at Exponor, in Porto.
May 2019	“20 years of concerns, experiences and successes with Acoustics”, invited speaker in the 2 <sup>nd</sup> Symposium on Acoustics and Vibrations, organized by ITeCons of the University of Coimbra.
April 2018	Lecture given at 2 <sup>nd</sup> Round Table Conference Rehabilitate as a Rule (RcR) organized by CPA – Colégio do Património Arquitectónico.
February 2017	“The Acoustics of the Convento São Francisco Auditorium in Coimbra”, lecture given at the Symposium on Acoustics and Vibrations organized by ITeCons of the University of Coimbra.
March 2016	“Acoustics and HVAC installations”, invited speaker in the Technical Afternoon organized by EFRIARC – Portuguese Association of Industrial Cold and Air Conditioning Engineers, 17 March 2016, Oporto.
March 2016	Pedagogical coordinator and lecturer of the course “Room Acoustics – Intensive Training Program” by Vicoustic Academy, given at the Vicoustic headquarters, 1 <sup>st</sup> and 2 <sup>nd</sup> March 2016, Paços de Ferreira.
November 2015	“Subscription of Building Acoustical Design Projects – New Internal Criteria”, lecture given at the VI Acoustical Engineering Conference organized by the Acoustical Engineering Executive Committee of the Portuguese Association of Engineers, at the Faculty of Engineering of the University of Oporto, 18 November 2015, in partnership with Rui Ribeiro.
November 2015	“The Acts of Acoustical Engineering – Scope, Competences and Transversality”, lecture given at the VI Acoustical Engineering Conference organized by the Acoustical Engineering Executive Committee of the Portuguese Association of Engineers, at the Faculty of Engineering of the University of Oporto, 18 November 2015.
September 2015	Conference “Health with Music... Music with Health”, invited speaker in the session “Health technology in the study of musical performance”, organized by the School of Health Technology of the Polytechnic Institute of Porto, at the Helena Sá e Costa Theatre, 23 September.
November 2014	“Music connected to... vibrations”, lecture given at the Porto Conservatory of Music, with José Vieira Antunes.
November 2013	“Musical Acoustics Research at ESMAE-IPP”, invited lecture at the Federal University of Santa Maria, Rio Grande do Sul, Brazil.
September 2013	“Aural Architecture   Sound Experiences in Architecture and in the Urban Space”, invited lecture at the International Workshop “O Parque e a Cidade”, organized by the Integrated Master Degree in Architecture of the Escola Superior Artística do Porto.

- November 2011 “The Musical Acoustics Laboratory at ESMAE-IPP – 15 years of research”, invited lecture at the Federal University of Santa Catarina, Florianopolis, Brazil.
- April 2011 “Sound and Music – The other side of noise”, lecture given on the International Noise Awareness Day, organised by the Portuguese Acoustical Society, National Civil Engineering Laboratory, 27 April 2011, Lisbon.
- December 2010 “Musical Acoustics Research Results in Portugal”, lecture given at the 6th thematic session commemorating the 30 years of the Portuguese Acoustical Society – ESMAE, 17 December 2010, Porto.
- October 2010 “Music and Noise – Two faces of the same coin?”, lecture given at the 4<sup>th</sup> conference in Medicine and the Performing Arts – Cultural Centre of Belém, 30 October 2010, Lisbon.
- March 2010 “4<sup>th</sup> conference in Acoustical Engineering – The difference aspects of Acoustical Engineering and its connections to society”, participation in the Building Acoustics discussion panel organized by the Portuguese Association of Engineers, 12 March 2010, Lisbon.
- February 2010 Participation as invited researcher at the event “Hoje Quem Manda Sou Eu”, commenting the piano concert by Mário Laginha, organized by the Knowledge Pavilion - Ciência Viva – National Agency for Scientific and Technological Culture, 27 February 2010.
- October 2009 Participation as invited researcher at the “Cycle of Commented Concerts: Music and Science” organized by Ciência Viva – National Agency for Scientific and Technological Culture and by the Lisbon Metropolitan Orchestra, 31 October 2009, at the Nova Lisbon University Auditorium.
- September 2009 O. Inácio, lecture “Physique et Instruments de Musique - Partie II”, lecture given at the symposium “Variations Sur un Thème Méconnu: Science et Musique” organized by the French-Portuguese Institute, in partnership with Vincent Debut and José Vieira Antunes, 22 September 2009.
- September 2008 O. Inácio – Lecture “String Instruments”, lecture given at the Seminar “The Physics of Musical Instruments”, given at the Nuclear and Technological Institute of the Ministry of Science, Technology and Higher Education in partnership with Vincent Debut and José Vieira Antunes.
- June 2007 O. Inácio – Seminar “Acoustical Quality of Auditoriums - Modules M4 e T2”, organized by the Portuguese Acoustical Society at the National Civil Engineering Laboratory, 1 June 2007.
- July 2006 O. Inácio, C. Sousa – “Acoustical Tests – How Uncertain?”, lecture given at the Workshop Acoustical and Vibration Tests – *Presentation and Interpretation of Results*, organized by RELACRE – Portuguese Accredited Laboratory Association, 5 July 2006, Lisbon, Portugal.
- March 2006 “2<sup>nd</sup> conference in Acoustical Engineering – Responsibilities and Challenges”, participation in the Building Acoustics discussion panel organized by the Portuguese Association of Engineers, 17 March 2006, Lisbon, Portugal.
- November 2005 O. Inácio, J. Antunes – “The Physics of Musical Instruments”, lecture given in the *Ciclo de Palestras na FEUP (Ano Mundial da Física 2005)*, Physics Department Faculty of Engineering of the University of Porto, 23 November 2005, Portugal.

- July 2005 "Fundamentals of Room Acoustics", lecture given at the *International Advanced Course on Musical Acoustics (IACMA)* organized by the Department of Engineering of the University of Bologna, Italy.
- May 2004 O. Inácio, L. Henrique, J. Antunes, "Numerical Simulation of the Dynamical Regimes of Tibetan Bowls", invited seminar at the School of Technology of the Polytechnic Institute of Setúbal.
- March 2003 Inácio, O., "Research on the Dynamics of Musical Instruments using a Nonlinear Modal Method", invited seminar at the Faculty of Engineering of the University of Oporto (FEUP).
- February 2003 Inácio, O., "The Dynamics of Bowed Musical Instruments", invited seminar at the Institute of Sound and Vibration Research (ISVR), University of Southampton, UK.
- December 2002 Inácio, O., Antunes, J., Henrique, L., (2002), "Influence of torsion modes in bowed-string dynamics", presented at the First Pan-American/Iberian Meeting on Acoustics, Cancun, México.
- April 2002 Inácio, O., "Largeur of Archet et la Régimes Dynamiques Corde Frottée", invited communication on the 6th French Congress of Acoustics (6ème CFA), Lille.
- July 2001 Inácio, O., Henrique, L., Antunes, J. (2001), "Dynamical Analysis of Bowed Bars", communication presented in 8th International Congress on Sound and Vibration (ICSV8), Hong Kong.
- June 2001 "Acoustics and the HVAC Industry", lecturer of the course promoted by the company Multiventilação directed to HVAC engineers.
- October 2000 "Environmental Quality - Noise", lecturer of the course given in the extent of the disciplines of Environmental Quality of the Technological School of Vale de Cambra.
- February 2000 "Virtual Acoustics", seminar given for the course of Production and Music Technology of the College of Music and Performing Arts (ESMAE) of the Oporto Polytechnic Institute.
- June 1999 "Study of the acoustic effect of the holes in a wind instrument", seminar given for the course of Production and Music Technology of the College of Music and Performing Arts (ESMAE) of the Oporto Polytechnic Institute.

## SCIENTIFIC ACTIVITY

Vice-director of UNIMAE – Research Unit in Music, Arts and Performance at ESMAE-IPP.

Head of the Musical Acoustics Laboratory (LAM) of the School of Music and Performing Arts of the Polytechnic Institute of Oporto and research fellow in Applied Dynamics Laboratory of the Nuclear and Technology Institute in Sacavém, Portugal.

## MEETING ORGANIZATION

Member of the organizing and scientific-technical committees of several congresses, namely:

- International Acoustic Summit, Casa da Música, Porto, outubro 2018;

- Symposium on Acoustics and Vibrations 2017, ITeCons, Coimbra, 3 February 2017;
- EuroRégio 2016 – 9th Iberian Acoustics Congress / 47th Spanish Acoustics Congress, Porto, 2016;
- VI Acoustical Engineering Seminars of the Portuguese Association of Engineers, Porto, 2015;
- V Acoustical Engineering Seminars of the Portuguese Association of Engineers at the XIX Congress of the Portuguese Association of Engineers, Lisbon, 2012;
- Acústica 2012 - VIII Ibero-American Acoustics Congress, Évora, 2012;
- Internoise 2010 - 39th International Congress and Exposition on Noise Control Engineering - Lisbon, 2010;
- Acústica 2008 - VI Ibero-American Acoustics Congress, Coimbra, 2008;
- ICSV12 - Twelfth International Congress on Sound and Vibration, Lisbon, 2005;
- Acústica 2004 - IV Ibero-American Acoustics Congress, Guimarães, 2004.

#### FINANCED RESEARCH PROJECTS

Principal Investigator of the project "Improving the Acoustical Performance of the Portuguese Guitar", PTDC/EMS-SIS/3255/2012, funded by the Foundation for Science and Technology of the Ministry of Science, Technology, and Higher Education, headed by the School of Music, Arts and Performance of the Polytechnic Institute of Porto in cooperation with the Instituto Superior Técnico Association for Research and Development (IST-ID) – Duration: 2 years.

Researcher responsible for the I&DT Technology Transfer Project funded by QREN (Vale Inovação), in 2013, for the Development and Characterization of Diffusion Systems for a Portuguese company, carried out at the Musical Acoustics Laboratory of the School of Music, Arts and Performance of the Polytechnic Institute of Porto – Duration: 1 year.

Researcher, representing the School of Music, Arts and Performance of the Polytechnic Institute of Porto in the research project titled "*Dynamical analysis of the Portuguese guitar strings and its interaction with the body of the instrument*", PTDC/FIS/103306/2008, funded by the Foundation for Science and Technology of the Ministry of Science, Technology, and Higher Education, in cooperation with the Instituto Superior Técnico (IST) and the Nuclear and Technological Institute (ITN) – Duration: 2 years.

Researcher, representing the School of Music, Arts and Performance of the Polytechnic Institute of Porto in the research project titled "*The Mafra Carrilions: Development of advanced methods on musical acoustics for tuning and restoration*", PTDC/EAT-MMU/104255/2008, funded by the Foundation for Science and Technology of the Ministry of Science, Technology, and Higher Education, in cooperation with the Nova Lisbon University (UNL) and the Nuclear and Technological Institute (ITN) – Duration: 2 years.

Researcher in the research project titled "Simulation and identification of nonlinear dynamical systems - *EXCITE*", POCTI/FIS/35336/1999 funded by the Foundation for Science and Technology of the Ministry of Science, Technology, and Higher Education, at the Nuclear and Technological Institute (ITN) – Duration: 2 years.

#### THESIS

"A Modal Method for the Simulation of Nonlinear Dynamical Systems with Application to Bowed Musical Instruments" - PhD thesis - University of Southampton, Faculty of Engineering and Applied Science, Institute of Sound and Vibration Research (ISVR), 2009.

"Investigations of the hole-change behaviour of an electroacoustic wind instrument" - MSc dissertation - University of Southampton, Faculty of Engineering and Applied Science, Institute of Sound and Vibration Research (ISVR), December 1998.

#### PUBLICATIONS IN BOOKS

INÁCIO, Octávio (2010), "The Portuguese Guitar", chapter of the book *The Science of String Instruments*, edited by Prof. Thomas Rossing, 1<sup>st</sup> Edition, Springer.

#### PUBLICATIONS IN PEER-REVIEWED JOURNALS

DEBUT, Vincent, ANTUNES, José, INÁCIO, Octávio (2017), "Linear modal stability analysis of bowed-strings", *The Journal of the Acoustical Society of America* 141 (3), pp. 2107-2120, March 2017.

RODRIGUES, Matilde, AMORIM, Marta, SILVA, Manuela, NEVES, Paula, SOUSA, Aida, INÁCIO, Octávio (2015), "Sound levels and risk perceptions of music students during classes", *Journal of Toxicology and Environmental Health, Part A*, 78:1–15, 2015.

INÁCIO, Octávio, FREITAS, Elisabete, RAIMUNDO, Isaac, FONSECA, Ricardo (2012), "Evaluation of the acoustic performance of a traffic noise reduction device", *Brazilian Society of Acoustics Magazine – SOBRAC, Acoustics and Vibrations* n. 44, December 2012.

INÁCIO, Octávio, ANTUNES, José, "Linear stability and nonlinear dynamics of bowed bars", submitted to the *Journal of Sound and Vibration*.

INÁCIO, Octávio, ANTUNES, José, WRIGHT, Matthew (2008), "Computational modelling of string-body interaction for the violin family and simulation of wolf notes", *Journal of Sound and Vibration*, Vol. 310/1-2 pp 260-286.

INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José, (2007), "Design of duct cross sectional areas in bass-trapping resonators for control rooms", *Noise Control Engineering Journal*, 55(2), March-April issue, INCE-USA.

INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José, (2006), "The Dynamics of Tibetan Singing Bowls", *Acoustic Proceeding 92*, n. 4, pp. 637-653, Hirzel-Verlag.

INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José, (2004), "The Physics of Tibetan Singing Bowls", *Acoustics Journal*, Vol. 35. N. 1 & 2, pp. 33-39, Spanish Acoustical Society.

INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José, (2003), "Simulation of the Oscillation Regimes of Bowed Bars: A Nonlinear Modal Approach", *Communications in Nonlinear Science and Numerical Simulation* 8, pp. 77-95, Elsevier.

#### PUBLICATIONS IN CONFERENCE PROCEEDINGS

INÁCIO, O., MARTINS, F. "The Acoustics of the Convento São Francisco Auditorium in Coimbra", *Symposium on Acoustics and Vibrations 2017*, 3 February, ITeCons, Coimbra, Portugal.

RIBEIRO, R., INÁCIO, O. "An experimental modal analysis on the Coimbra model of the Portuguese guitar", *EuroRégio 2016*, 13-15 June, Porto, Portugal.

DEBUT, V., INÁCIO, O. "Structural Analysis and Control of Vibrating Hoppers for Harvested Grapes in a Wine Cellar: A Case Study", *Tecniacústica 2015*, *Proceedings of the 46.º National Acoustics Congress*, 21-23 October, Valencia, Spain.

- RODRIGUES, M., SILVA, M., SILVA, P., GOMES, R., PRIOR, A., INÁCIO, O. "Perceptions of music students about the effects of loud music and protective practices", in Occupational Safety Hygiene SHO2015 – Proceedings book, 306-308. ISBN: 978-989-98203-3-3.
- CORREIA, Ricardo; VIEIRA, José; FANCA, Carlos; ALBUQUERQUE, Daniel; BASTOS, Carlos; COSTA, Hugo; BERNARDINO, Joana; MASCARENHAS, Miguel; PEREIRA, Maria; FONSECA, Carlos; INÁCIO, Octávio; "Characterization of the Ultrasonic Acoustic Field of a Wind Turbine", Tecnicústica 2014, Proceedings of the 45th National Acoustics Congress, 29-31 October, Murcia, Spain.
- MILANESI, Vincenzo; TRONCHIN, Lamberto; INÁCIO, Octávio, "Design and analysis of the sound reinforced system for the FIFA world cup 2014 stadium DUNAS ARENA, in Natal", Proceedings of the Forum Acusticum congress, 7-12 September 2014, Kraków, Poland.
- ALMEIDA, Gustavo; RIBEIRO, Hugo; GUERRA, Pedro; INÁCIO, Octávio, "VW System — Electracoustic System for Interactive Auralization with Musicians: Objective and Subjective Evaluation", Tecnicústica 2013, Proceedings of the 44th National Acoustics Congress, 1-4 October, Valladolid, Spain.
- ROSÃO, Vítor; INÁCIO, Octávio, "Contribution to the evaluation of the acoustic quality of Fado Houses", Acústica 2012, VIII Acoustics Ibero-American Congress, 1-3 October, Évora, Portugal.
- PORTELA, Marcelo; RIBEIRO, Rui; BERNAT, Miguel; INÁCIO, Octávio, "Scaling of an extended bell-plate musical instrument", Acústica 2012, VIII Acoustics Ibero-American Congress, 1-3 October, Évora, Portugal.
- MCDADE, André; CARDOSO, Clara, FREITAS, Elisabete; INÁCIO, Octávio, "Impact of surface layers of pavements on noise maps - case studies", Acústica 2012, VIII Acoustics Ibero-American Congress, 1-3 October, Évora, Portugal.
- ALMEIDA, Gustavo; INÁCIO, Octávio, "Influence of the acoustics of the stage on musical performance: electroacoustic system for interactive auralization with musicians", Acústica 2012, VIII Acoustics Ibero-American Congress, 1-3 October, Évora, Portugal.
- INÁCIO, Octávio; FREITAS, Elisabete; RAIMUNDO, Isaac; FONSECA, Ricardo, "Evaluation of the acoustic performance of traffic noise reduction devices", Proceedings of the XXIV Brazilian Acoustical Society Meeting (SOBRAC2012), 29 May-1 June 2012, Belém PA, Brazil.
- DEBUT, Vincent, ANTUNES José, INÁCIO, Octávio, "What can we learn about the wolf phenomenon from a linearized analysis?" Proceedings of the 19th International Congress on Sound and Vibration (ICSV19), 8-12 July 2012, Vilnius, Lithuania.
- MARQUES, Miguel, INÁCIO, Octávio, DEBUT, Vincent, ANTUNES José, "On the Dynamical Behaviour of Worn Guitar Strings", Proceedings of the congress Acoustics 2012, 23-27 April 2012, Nantes, France.
- ALMEIDA, Gustavo, INÁCIO, Octávio e BARBOSA, Álvaro, "Electroacoustic System for Interactive Auralization with Musicians: Preliminary Results", XIII Meeting of the Portuguese Audio Engineering Association, 7 October 2011.
- PRATA, José, INÁCIO, Octávio e CONCEIÇÃO, Marco, "A captação Duplo MS: variante Casa da Música", XIII Meeting of the Portuguese Audio Engineering Association, 7 October 2011.
- DEBUT, Vincent, ANTUNES José, INÁCIO, Octávio, "A Linearized Modal Approach for Predicting Wolf Notes", Proceedings of the 18th International Congress on Sound and Vibration, ICSV18, 10-14 July 2011, Rio de Janeiro, Brazil.

DEBUT, Vincent, INÁCIO, Octávio, DUMAS, Thibaut, ANTUNES José, “Modelling and Experiments on String/Body Coupling and the Effectiveness of a Cello Wolf-Killing Device”, Proceedings of the International Symposium on Music Acoustics, ISMA2010, 25-31 August 2010, Sydney and Katoomba, Australia.

DEBUT, Vincent, INÁCIO, Octávio, ANTUNES José, “Influence of the String Torsional Motions on the Identification by Inverse Methods of the Bow/String Friction Interaction Force”, Proceedings of the 17th International Congress on Sound & Vibration, ICSV17, 18-22 July 2010, Cairo, Egypt.

INÁCIO, Octávio, “The Refurbishment of the Portuguese Public Secondary School Network: An Acoustical Perspective”, INTERNOISE 2010, 13-16 June, Lisbon, Portugal.

RAIMUNDO, Isaac, Freitas, Elisabete; Inácio, Octávio, PEREIRA, P., “Sound Absorption Coefficient of Wet Gap Graded Asphalt Mixtures”, INTERNOISE 2010, 13-16 June, Lisbon, Portugal.

RAIMUNDO, Isaac, Freitas, Elisabete; Inácio, Octávio, PEREIRA, P., “In Situ Assessment of the Normal Incidence Sound Absorption Coefficient of Asphalt Mixtures with a New Impedance Tube”, INTERNOISE 2010, 13-16 June, Lisbon, Portugal.

FREITAS, Elisabete; INÁCIO, Octávio, “Noise Absorption of Gap Graded Mixtures with Rubberized Asphalt”, EURONOISE 2009, 26-28 October, Edinburg, Scotland.

FONSECA, Ricardo; INÁCIO, Octávio; FREITAS, Elisabete; BRAGANÇA, Luís, “Determination of the Acoustic Performance of Road Traffic Noise Reduction Devices”, Acústica 2008, 20-22 October, Coimbra.

SANTIAGO, Francisco, INÁCIO, Octávio, (2008), “An Acoustical Overview on Portuguese Concert Halls”, Acústica 2008, 20-22 October, Coimbra.

INÁCIO, Octávio, ANTUNES, José, “Shape-optimization of several multi-modal resonators accounting for room/resonator acoustical coupling”, Acoustics 2008, Paris.

ANTUNES, José, INÁCIO, Octávio, “A Substructure Method for the Computation of Complex String/Body Coupled Modes from the Unconstrained Subsystems”, ICA 2007, Madrid.

INÁCIO, Octávio, ANTUNES, José, “A Linearized Modal Analysis of the Bowed String”, ICA 2007, Madrid.

ANTUNES, José, INÁCIO, Octávio, “A Theoretical Analysis of Multi-Modal Bass-Trapping Resonators Coupled to Control-Room Acoustics”, ISRA 2007, Seville.

SANTIAGO, Francisco, INÁCIO, Octávio, (2007), “Acoustical Characteristics of 33 Theatres and Concert Halls in Portugal”, ISRA 2007, Seville.

ANTUNES, José, INÁCIO, Octávio, HENRIQUE, Luís (2007), “Overview of Nonlinear Effects in Impact and Friction-Excited Musical Instruments”, EUROMECH Colloquium 483: Geometrically Non-linear Vibrations of Structures, 9 – 11 July 2007, FEUP, Porto, Portugal.

INÁCIO, Octávio, ANTUNES, José, (2006), “Linearized and Nonlinear Dynamics of Bowed Bars”, 4th Fourth Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan, 28 November to 2 December 2006, Honolulu, USA.

INÁCIO, Octávio, ANTUNES, José, (2006), “A Linearized Analysis of Friction-Excited Musical Bars”, Proceedings of the 8th Congress CFA 2006, 24-27 April 2006, Tours, France.

INÁCIO, Octávio, ANTUNES, José, (2005), "Simulation Methods for the Nonlinear String/Body Coupled Dynamics of Bowed Musical Instruments: A Comparative Analysis", Proceedings of the Forum Acusticum 2005, 29 August - 2 September 2005, Budapest, Hungary.

HENRIQUE, Luís, INÁCIO, Octávio, PAULINO, José, ANTUNES, José (2005), "Optimization of Vibratory and Acoustical Components of Percussion Instruments: Theoretical and Experimental Results", Proceedings of the Forum Acusticum 2005, 29 August - 2 September 2005, Budapest, Hungary.

INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José, (2005), "Optimized Bass-Trapping Resonators for Control Rooms: A Preliminary Study", Proceedings of the Internoise 2005, 7-10 August 2005, Rio de Janeiro, Brazil.

INÁCIO, Octávio, ANTUNES, José, (2005), "Dynamical Regimes of Bowed-String Instruments with Body-Coupling", Proceedings of the Twelfth International Congress on Sound and Vibration, 11-14 July 2005, Lisbon, Portugal.

HENRIQUE, Luís, ANTUNES, José, INÁCIO, Octávio, PAULINO, José (2005), "Application of Optimization Techniques for Acoustical Resonators", Proceedings of the Twelfth International Congress on Sound and Vibration, 11-14 July 2005, Lisbon, Portugal.

INÁCIO, Octávio, ANTUNES, José, (2004), "Modelling the Nonlinear String/Body Coupled Dynamics of Bowed Musical Instruments", 148th Meeting of the Acoustical Society of America, 15-19 November 2004, San Diego, USA.

INÁCIO, Octávio, ANTUNES, José, WRIGHT, Matthew (2004), "Bowing the Wolf: Simulations and Experiments on a Cello", Proceedings of the IV Ibero-American Acoustics Congress, 13-17 September 2004, Guimarães, Portugal.

INÁCIO, Octávio, SANTIAGO, Francisco, CABRAL, Pedro. C. (2004), "The Portuguese Guitar Acoustics: Part 1 – Vibroacoustic Measurements", Proceedings of the IV Ibero-American Acoustics Congress, 13-17 September 2004, Guimarães, Portugal.

SANTIAGO, Francisco, INÁCIO, Octávio, CABRAL, Pedro. C. (2004), "The Portuguese Guitar Acoustics: Part 2 – Subjective Acoustical Quality Evaluation", Proceedings of the IV Ibero-American Acoustics Congress, 13-17 September 2004, Guimarães, Portugal.

INÁCIO, Octávio (2004), "Specifications and Inspection in the Specialty of Acoustics: Application to the Design and Construction of Concert Halls", Proceedings of the IV Ibero-American Acoustics Congress, 13-17 September 2004, Guimarães, Portugal.

ANTUNES, José, INÁCIO, Octávio, (2004), "Physical modelling of Tibetan bowls", 147th Meeting of the Acoustical Society of America, 24-28 May 2004, New York, USA.

INÁCIO, Octávio, ANTUNES, José, (2004), "Dynamical Responses of a Large Tibetan Singing Bowl", Proceedings of the International Symposium on Musical Acoustics, 31 March to 3 April 2004 (ISMA2004), Nara, Japan.

INÁCIO, Octávio, ANTUNES, José, WRIGHT, Matthew (2004), "On the Violin Family String/Body Dynamical Coupling", Proceedings of the Spring Conference of the Institute of Acoustics, Southampton, England.

INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José, (2003), "The Physics of Tibetan Singing Bowls. Part 1: Theoretical Model", Proceedings of the 34<sup>th</sup> National Acoustics Congress and EEA symposium, in Bilbao, Spain.



INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José, (2003), "The Physics of Tibetan Singing Bowls. Part 2: Numerical Simulations", Proceedings of the 34<sup>th</sup> National Acoustics Congress and EEA symposium, in Bilbao, Spain.

INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José, (2003), "Nonlinear dynamics and playability of bowed instruments: from the bowed string to the bowed bar", Proceedings of the Eleventh International Conference on Computational Methods and Experimental Measurements (CMEM 2003), Halkidiki, Greece.

INÁCIO, Octávio, ANTUNES, José, HENRIQUE, Luís, (2002), "Influence of torsion modes in bowed-string dynamics", First Pan-American/Iberian Meeting on Acoustics, Cancun, Mexico.

INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José (2002), "Simulation of the Oscillation Regimes of Bowed Bars: A Nonlinear Modal Approach", Proceedings of the 2002 ASME International Mechanical Engineering Congress & Exposition (IMECE'02), New Orleans, USA.

INÁCIO, Octávio, (2002), "Arc width and dynamic regimes of the curved cord", Proceedings of the 6th French Acoustics Congress (6<sup>ème</sup> CFA), Lille, France.

ANTUNES, José, HENRIQUE, Luís, INÁCIO, Octávio (2001), "Aspects of Bowed-String Dynamics", Proceedings of the 17<sup>th</sup> International Congress on Acoustics, (ICA 2001), Rome, Italy.

INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José (2001), "Dynamical Analysis of Bowed Bars", Proceedings of the 8<sup>th</sup> International Congress on Sound and Vibration, Hong Kong.

INÁCIO, Octávio, HENRIQUE, Luís, ANTUNES, José (2001), "Influence des Modes de Torsion Sur les Régimes Dynamiques des Cordes Frotées", Journée: Instruments à Cordes: Entre Facture, Acoustique et Musique, Société Française d'Acoustique, Groupe Spécialisé d'Acoustique Musicale, Lisbon, Universidade Nova de Lisboa (New University of Lisbon).

## PERSONAL SKILLS

### LANGUAGES

Portuguese	Native language.
English	Fluent in speaking, reading and writing and with extensive knowledge of technical terms.
French	Fluent in speaking, reading and writing and knowledge of technical terms.
Spanish	Fluent in speaking, reading and writing and knowledge of technical terms.

### COMUNICATION SKILLS

Good communication skills acquired through work experience as a teacher, researcher and industry.

### MANAGEMENT SKILLS

Good leadership, organization and management skills acquired by experience in business management and organization of research projects, conferences and seminars in the field of engineering.

#### ADDITIONAL TECHNICAL SKILLS

Independent user of acoustical and vibrations measuring systems.

#### COMPUTER SKILLS

Independent user of Windows and Microsoft Office environment, with good knowledge of programming in Matlab and Visual Basic.

#### DRIVER'S LICENCE

B category.

19/02/2020