

JOÃO DE JESUS FERREIRA



CURRICULUM VITAE

JOÃO MANUEL LOURENÇO DE JESUS FERREIRA

July 2006



CURRICULUM VITAE

(Summary)

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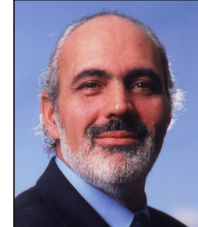
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Nationality: Portuguese



Academic achievements

- a) **Electromechanics Engineering First Degree**, Military Institute of Army Pupils, with final grade of 14/20 (1972).
- b) **Electrical Engineering Degree**, Superior Technical Institute (Faculty of Engineering) with final grade of 15/20 (1977).
- c) **Master's degree in Politics, Economics and Energy Planning** (academic duration: 3 semesters) from Superior Economic Institute and Superior Technical Institute for Advanced Studies, with final grade of 16/20 (1987).
- d) **Post Graduation Course in Business and Administration** from Universidade Nova de Lisboa - MBA Department (1994/1995).
- e) Attendance at a **Post Graduation Course in European Studies - Economics major** at Catholic University of Portugal, Centre for European Studies (academic year 1989/90).
- f) Attendance at **Executive MBA Course** from AESE, Lisbon (academic years of 2000/2001).

Technical specializations

- a) **Specialization in Architectural Acoustics and Industrial Noise Control**. Acquired during professional work period at organizations specialized in this topic.
- b) **Specialization in Energy Economics and Rational Use of Energy**, acquired during a professional work period, while also performing a variety of teaching assignments.

Professional achievements

The beginning of professional activity started on the 1st of April 1974 at an enterprise in the line of acoustics and thermal in buildings, as well as, in industrial installations. Since then, the professional activity practice has been developed in the areas of: administration and management of enterprises and Public Institutions; energetic and environment policy; energy economics and management; energy rational use and efficiency; renewable and alternative energies; economic analysis of investment projects; engineering projects in the fields of lighting, electrical installations, air conditioning installations, fire detection installations, mechanical installations, acoustical architectural and noise control in technical installations.

- a) Performed commercial and technician tasks at the following firms:
 - VORTEX, Engineering and Environment;
 - NÓNIO, Energy Equipments.
- b) Performed Technical Consultant tasks at MONTEPIO GERAL.
- c) Performed Conception and Planning Engineering activities in important Project Councils, namely MAROBAL and LUSOTECNA.
- d) Performed management tasks in the Electromechanics Engineering Department which belongs to the Business Group GRÃO-PARÁ and INTERHOTEL.



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- e) Performed consulting tasks at CEEETA, Economy and Energy Study Centre at Lisbon Technical University.
- f) Performed consulting tasks at Secretaria de Estado do Ambiente e dos Recursos Naturais – VALOREN program.
- g) Advisor at the Portuguese Directorate General for Energy at the Rational Use of Energy Services.
- h) Collaboration with the Mechanics Engineering Department at Superior Technical Institute – responsible for teaching a subject dedicated to Energy Management part of the Mechanic Engineering Degree and Energy Masters Degree.
- i) Performed teaching tasks at Engineering Centre of Superior Studies, and since 1975, at IMPE, Military Institute of Army Pupils.
- j) Teaching activities at UAL – Instituto Sócrates, at post graduations courses related to energy subjects.
- k) Performed Technical Director tasks for CCE - Energy Conservation Centre, since September 1988 until December de 1995.
- l) Consultant of Parque EXPO'98, SA in subjects related to Energy Economics in Buildings and Energetic infrastructures.
- m) Member of the Administration Council of ACIT Societies – Assistance and Technical Installations - and AXIMA Portugal - Engineering & Contracting, S.A..
- n) Head of the consortium responsible for the conception and implementation of the project “Production and Urban Distribution of Thermal Energy” at Parque das Nações (Expo'98). District Heating and cooling with CHP.
- o) President and C.E.O. of group AMEC SPIE PORTUGAL .
- p) President and C.E.O. of OELE – Instalações Eléctricas e Mecânicas, S.A., EVALE – Construções Metálicas e eléctricas, S.A., CISEC – Manutenção e Instalações Técnicas, S.A., SOMETIN – Sociedade de Metalúrgica Industrial S.A., SOLUÇÕES ESTRUTURADAS – Instalações Técnicas Especiais, S.A..
- q) Founder of Ad Mensuram – Energy Consulting – Consultoria em Engenharia e Gestão, Lda, a company dedicated to energy and management consulting.

Complementary activities

Member of the Portuguese Acoustics Society Founding Commission, whereby the position of 1st Secretary to General Assembly was held.

- a) Member of Technical Commissions for the Regulation of the Ministry of Industry and Technology (Acoustics Department).
- b) National representative, on the ISO, for work groups dealing with the regulation of "Noise factor in Heating, Ventilation and Air conditioning systems".
- c) Member of the Portuguese Society of Acoustics and Portuguese Society of Solar Energy.
- d) Senior Member of the Engineers College, with the grade Energy Specialist.
- e) CREM member, Centre de Recherche et d'Enseignement en Energie et Techniques Municipales; Martigny (Switzerland).
- f) Member of IAEE – International Association for Energy Economics (USA).
- g) National representative with the European Federation of Energy Management Associations - EFEM; Brussels (Belgium).
- h) Jury member for the Regulations of Thermal Conditions in the Buildings of the Public Construction and Transportation Head Board.
- i) Member in the Commission for the development and aid in the National Energy Plan.
- j) Member of CNURE – National Commission for the Rational end use of Energy.
- k) National representative on the Marketing Group for Energy Technologies, District Heating and Cogeneration, for the Commission of the European Communities (DG XVII).
- l) Thermie Technical Manager for the Commission of the European Communities (DG XVII).
- m) Consulting functions for **Parque EXPO'98** in Energy Efficiency in Buildings and Energetic infrastructures related matters.



Professional Accomplishments

Engineering

Fulfilment of various engineering studies and projects in the areas of Technical Installations, Energy and Environment, for companies from different economic sectors, for example:

- GALP Energy
- PORTUGAL TELECOM
- EDP – Electricidade de Portugal
- TAP – Air Portugal
- DGE – Direcção Geral de Energia
- AUTODROMO DO ESTORIL
- CLIMAESPAÇO
- SHELL PORTUGUESA
- TRANQUILIDADE – Insurances
- UNITEL – Angola
- CGD – Caixa Geral de Depósitos
- TEXTO EDITORA
- MONTEPIO GERAL
- PARQUE EXPO'98, SA
- INTERHOTEL
- GRÃO PARÁ Hotel Group
- MERIDIEN HOTEL
- SHERATON HOTEL

Management

Fulfilment of various projects of Business Management in companies from different economic sectors, for example:

- EDP Electricidade de Portugal
- CLIMAESPAÇO
- TURBOMAR Energy
- EDP Corporate
- MAN Group
- CCE – Centre for Energy Conservation
- AMEC SPIE Portugal
- Grupo TURBOMAR
- Organization of business areas related to Facilities Management and Multiethnic Maintenance.
- Company and business reengineering and growth strategies implementation in companies from different economic sectors.

Other Projects

- Fulfilment of various studies and published articles (about 50) in the field of Energy Economics and Rational & Efficient Use of Energy.
- Public speaker and/or assistant at various seminars and congresses (about 60) relating to Energy and Electrical Engineering.
- Professional co-operatives in various countries, namely Switzerland, Belgium, France, Spain, Denmark, Netherlands, Greece, South Korea, United Kingdom and Angola.
- Main author of the first book written in Portuguese language related with Energy Management.
- Professional visits to countries such as Switzerland, Belgium, France, Spain, Denmark, Holland, Greece, United Kingdom, Italy, Germany, Sweden, Austria, Hungary, United States of America, Tunisia, Turkey, Sri Lanka, Russia, etc..



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(Detailed)

Professional experience

2005 - 2006

Founder of the Energy Consulting company **Ad Mensuram**, Lda, which initiated activities related to consultancy in business management, engineering, energy and environment areas. The most important projects developed:

- Organization of new business areas related to Multitechnics Maintenance and other services for an important Portuguese group in the Energy Sector.
- Reorganization of company structure and its business areas with business growth as a goal for a group in the Energy and Environment Sector.
- Electrical Auditing of buildings and technical sites of an important company of the telecommunications sector, in Angola.

2004

President and CEO at **AMEC SPIE PORTUGAL, SGPS**, and its companies, which are:

OELE – CONSTRUÇÕES ELÉTRICAS E MECÂNICAS, S.A.

- Business volume in 2003: 23 774 k€
- Number of employees: 160
 - Main projects in 2004:
 - Corinthia Hotel Alfa – electrical, mechanical and HVAC Installations;
 - Freeport – electrical, mechanical and ventilation Installations;
 - Jaba Farmacêutica – electrical, mechanical and HVAC Installations;
 - Iberfar Laboratories – Electricity, mechanics and HVAC;
 - Palácio Sottomayor – electrical, mechanical, HVAC, security and telecommunications Installations;
 - Jaba Farmacêutica – electrical, mechanical and HVAC Installations.

EVALE – CONSTRUÇÕES METÁLICAS E ELÉTRICAS, S.A.

- Business volume in 2003: 3 800 k€
- Number of employees: 60
 - Main projects in 2004:
 - Porto Metropolitan – Main electrical boards;
 - Lisbon Metropolitan – Main electrical boards;
 - Freeport – Main electrical boards.

CISEC – MANUTENÇÃO E INSTALAÇÕES ELÉTRICAS, S.A.

- Business volume in 2003: 3 600 k€
- Number of employees: 60
 - Main projects in 2004:
 - Banco de Portugal – Air conditioning maintenance;
 - Parque Expo – Fountains and water games global maintenance;
 - Continental Mabor – Air conditioning and ventilation system maintenance of factory installations;
 - Jaba Pharmaceutics – Multitechnical maintenance of the factory and offices installations.



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SOMETIN – SOCIEDADE DE METALURGIA INDUSTRIAL, S.A.

- Business volume in 2003: 6 700 k€
- Number of employees: 90
- Main projects in 2004:
 - ✓ Petrogal (Oil&Gas) - stoppage for general and main annual maintenance
 - ✓ Petrogal (Oil&Gas) - Leixões Port renewal.

SOLUÇÕES ESTRUTURADAS – INSTALAÇÕES TÉCNICAS ESPECIAIS, S.A.

- Business volume in 2003: 1 700 k€
- Number of employees: 20
- Main projects in 2004:
 - Corinthia Alfa Hotel – Communication network;
 - Freeport – Communication and security network, access control;
 - Sport Lisboa e Benfica Stadium – Optical fibre Backbone of the access control network;
 - Palácio da Justiça – Structured network

1995 - 2004

CEO at **CLIMAESPAÇO - SOCIEDADE DE PRODUÇÃO E DISTRIBUIÇÃO URBANA DE ENERGIA TÉRMICA, S.A.**, responsible for the following most important projects:

District Heating and Cooling system for all area of Parque das Nações in Lisbon, with a CHP plant for electricity, heating and cooling.

- Investment: 75 Millions of Euros (1995)
- Business volume: 10 to 15 Millions of Euros per year (1995)
- Market penetration: 95%
- Directly implicated co-workers: 8 Superior Technicians, 14 Exploration Technicians, 3 Maintenance Technicians, 5 Administrative and Secretaries.

CHP Plants – Developing strategic business unit. Initial phase.

Facilities Management and Multiservices - Technical management, building and industrial installations maintenance.

1988 - 1995

At **CCE - Centre for Energy Conservation** - Technical Director.

Some activity data on his responsibility:

- Business volume: 2 500 to 3 750 k€ (1995);
- Market penetration of Energy consulting: 75%;
- Directly implicated co-workers: 30 Superior Technicians, 10 Administrative and Secretaries.

Responsible for leading and coordinating various projects and programs such as:

a) Energy Management

- Application and Follow up of Energy Consumption Management Regulations.
- Energy - Bus (Energy Control Laboratory).
- Rational Use of Energy in Buildings.
- Rational Use of Energy in Industry.
- Energetic and Technological Auditing
- Monitoring & Targeting
- Demand-side Management



b) Forecasting system and database

- SIURE, Rational Use of Energy Incentive System.
- RUE Data Base - Rational Use of Energy.

c) Alternative and renewable energy

- Low Temperature Solar Heat Energy.
- Photovoltaic Solar Energy.
- Production System and Biogas utilization.
- Solid Urban Waste.
- National Plan Objectives for the Renewable Energies

d) Rational Use of Electrical Energy (UREE) - CCE/EDP Project Management which includes, among others the following tasks:

- Electrical equipment testing and technical-economical treatments of the gathered data.
- Development of various manuals pertaining to URE Electric.
- Formation of executive boards at EDP in relation to URE Electric.
- Technical-Economic evaluation of "Heat Pump" Systems.
- Energetic Characterization of several subsections of industrial activities

e) G.A.C.E.E. – SUPPORT OFFICE ON ENERGY CONSERVATION IN BUILDINGS

Joint Leadership with F.E.U.P. (Faculty of Engineering of Porto University) of G.A.C.E.E., whose main objective is the development of projects – programs on management and efficient use of energy in buildings in general. The ambit of this office performance includes a vast universe of actions, pointing out among many, projects aiming the achievement of auditing at several levels, supervision and energetic regulation re-examining of the sector, specific studies on energy preservation in buildings and energetic rehabilitation of old buildings. This activity was developed between 1992 and 1994.

f) National Energy Plan

During the planning stages, the introduction of methods leading to the Rational Use of Energy and consequently an improvement in the efficiency of energy consumption in the Portuguese economy.

g) Other programs pertaining to Rational Use of Energy

- Market study to determine the potential gain from energy conservation; project realized by CCE and EGF for EDP- Portuguese Electricity.
- Technical-Economic Analysis of the various Cogeneration systems, within the context of actual energy politics and incentives, constituted by one Final Report and 5 partial reports.
- Follow up to applications of Energy Management in Buildings through the execution of the protocols established with the University Stadium of Lisbon, Municipal Council of Lisbon and Portuguese Air Force General Staff.
- Responsible for the development of the National Action Program concerning the community program PACE.
- Evaluative study dealing with the promotion steps of renewable energies in Portugal falling within the period of 1973 - 1990; project realized for the European Community Commission - DG XVII.
- Study on identification of penetration barriers to **Third party Financing**
- Elaboration of the National Plan Objectives for the Renewable Energies in Portugal.
- Elaboration of a study for the valuation Methodology on the execution impact of the PACE program.
- Participation in a Study on "Comparison of Energetic Efficiency Indicators in European Countries ", work directed by ADEME for the Commission of the European Communities DG XVII.



g) European Community oriented tasks.

- PACE Program - Rational Use of Electrical Energy
- SAVE Program - Rational Use of Energy
- EFEM Agent - European Federation of Energy Managers
- THERMIE Program- Rational Use of Energy
- Commission of the European Communities (DG XVII) **Expert** for the technical management of energetic projects.

h) Other tasks

- Aside from carrying out Technical Director's duties at CCE, duties of support and advice, to the Administration for the general management of the CCE were also performed.
- Teaching tasks at Superior Engineering Studies at the I.M.P.E - Military Institute of Army Pupils
- Performed at **Parque EXPO'98, S.A.**, Technical Consultant functions for related matters to Building Energy Economy and Energetic Infrastructures, as well as the cooling and the heating centralised production system.

1988

- Maintained duties listed in the next paragraph (CEEETA - VALOREN Program) and teaching activities at I.M.P.E..
- Completed course at IST, ENERGY SAVINGS IN TRANSPORTATION, within the European Community COMETT program.
- Began Advising/Consulting duties at the Portuguese Directorate General for Energy working with the Rational Use of Energy Services.
- Began duties at C.C.E. - Centre for Energy Conservation, acting since the 1st of September 1988, as Technical Director.

1987

- Membership with CEEETA (Lisbon Technical University Study Centre for the Economy of Energy) Studies partaking in the Communitarian Program VALOREN.
- Participated in the teaching and development of a technical manual belonging to a University Curriculum - Alternative Energy Installation Planners - promoted by the R.S.P. and backed by the Social European Committee, with a duration of 4 months.
- Completed a 6 month training course with CREM, Centre de Recherche en Energie de Martigny, of the EPFL - École Polytechnique Fédérale de Lausanne in Switzerland.

1986

- Master in Politics, Economics and Energy Planning at the Superior Economic Institute and Superior Technical Institute (ISE/IST).
- Participation in the teaching and development of a technical manual which was part of the University Graduating Curriculum - Electromechanic Installers from Electrogenic Groups - promoted by TURBOMAR and backed by the European Social Fund - duration of 8 months.
- Since September 1986, resulting from Academic demands from the Masters degree, left duties at Grão-Pará.

1984 - 1985

- Maintains all activities mentioned in the next paragraph as well as teaching duties at I.M.P.E..
- Technical Consulting duties at LUSOTECNA dealing with the completion of Engineering projects related to the Energy field.



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1974 - 1983

- In addition to the Military Service, starts work at VORTEX dealing with ACOUSTICS, THERMAL ISOLATION and ELECTRICITY carrying out functions for the firms Technical Group, partaking in various Studies and Projects and giving support to the Commercial department, developing a Techno-Commercial system.
- Finishes Military Service. Invited to teach at I.M.P.E. (Superior Studies of Engineering), in addition to maintaining duties as Technical Group Leader of the aforementioned firm.
- Maintains teaching duties at I.M.P.E. (Superior Engineering Studies).
- Performs functions as Technical Manager of VORTEX, taking responsibility for studies, projects and execution of these projects, all of which were based on ACOUSTICS, THERMAL ISOLATION and ELECTRICITY.
- Takes on Technical Consultant tasks at Montepio Geral.
- Takes on Technical Commercial duties in the Industrial Electronics department and NÓNIO's Acoustics department - Agent Sales Office, Technical Assistance, Studies and Projects, Ltd..
- Terminates duties with VORTEX.
- Terminates duties with NÓNIO and begins Freelance Consulting work.
- Continues teaching duties at I.M.P.E., Freelance Planning Consultant, as well as Technical Consultant at Montepio Geral. Begins with MAROBAL joining a project team dealing with Specific Technical Installations.
- In August 1983 leaves MAROBAL and MONTEPIO GERAL, taking over duties of Technician responsible for Department of Electromechanical Engineering at IMOBILIÁRIA GRÃO PARÁ. Duties include the creation of new projects (specializations), as well as the coordination and supervision of Maintenance Technical Services of every outlet (hotel) belonging to the Business Group Grão-Pará.

Academic year of 1976/1977

- In March 1977 concludes a Universitarian Degree at the Superior Technical Institute in Electrical Engineering with a final grade of 15/20 (specializing in Energy and Power Systems - "High Power").
- Obtains the professional title of Electrotechnical Engineer.

Academic year of 1972/73

Enters the Army to fulfil mandatory military service, with status of Military Officer (drafted) of the Military Service.

Placed in the Training School of Material Services in Sacavém.

In October 1973, takes Superior Technical Institute admission exam - obtains entry.

Academic year of 1971/1972

Finishes Electromechanics engineering college course at the Military Institute of Army Pupils, with final grade point average of 14 and a "Professional Aptitude" training course. The above training courses were made in the following firms.

- GENERAL MOTORS and TAP - Air Portugal



Accomplished works in the consulting field and projects in management

Project creation, implementation and coordination of business and companies organization ,management and negotiation support for the development of investment projects.

- **CCE Centro para a Conservação de Energia**
General company organization
- **EDP -Electricidade de Portugal**
Organization of new business area related to energetic efficiency services
- **M A N Group**
Organization of new business area related to cogeneration
- **TURBOMAR Energia**
Organization of new business area related to cogeneration
- **Grupo Turbomar**
Reorganization of the group's structure and its business units having a growth strategy as a goal
- **CLIMAESPAÇO**
Company organization: structure and business areas related to district heating and cooling, cogeneration and trigeneration.
- **EDP Corporate**
Organization of a new business area related to energy services.

Accomplished works in the consulting field and projects in engineering

Accomplishment of various Studies and Projects in the fields of Electrical Engineering (Energy and Electronics), Acoustics, Lighting, Air Conditioning and Fire Safety for some firms and organizations, as well as the effectuation of other related works, such as:

- **UNITEL (Angola)** - Auditing to special and technical Installations of several buildings and technical areas of mobile telecommunications enterprise of Angola, including plans of maintenance and professional education;
- **CLIMAESPAÇO** – Production and Urban Distribution of Thermal Energy at Parque das Nações;
- **PORTUGUESE AIR LINES** - Acoustics and Lighting;
- **PORTUGAL TELECOM** - Acoustics, Electricity, Lighting and Air Conditioning;
- **QUIMIGAL** - Acoustics, Electricity and Lighting;
- **EPG (PETROQUIMICA)** - Electricity and Lighting;
- **PETROGAL** - Acoustics;
- **COMIBERLAND (NATO - Fonte da Telha)** - Noise Control and Vibrations;
- **EDP** - Acoustics;
- **ECONOMIC HABITATION COOPERATIVES** - Electricity;
- **BANCO DE FOMENTO NACIONAL** - Electricity and Lighting;
- **PAÇOS DO CONSELHO DE ALJUSTREL** - New Building, Electricity and Lighting;
- **LISNAVE** - Acoustics, Electricity, Lighting & Thermal
- **SETENAVE** - Acoustics and Lighting;
- **STATE PARTICIPATIONS INSTITUTE** - Electricity and Lighting;
- **PORTUGUESE TELEVISION (RTP)** - Acoustics;
- **AIR FORCE MAJOR STAFF** - Acoustics (TV studio), Air Conditioning;
- **PORTUGUESE POST AND TELECOMMUNICATIONS** -Ventilation;
- **IMPÉRIO INSURANCE COMPANY** - Noise Control in Technical Installations;
- **CACÉM SHOPPING CENTRE** - Noise Control in Technical Installations;
- **SHELL, PORTUGUESE** - Industrial Noise Control;
- **MONTEPIO GERAL (BANK)** - Electricity, Lighting and Air Conditioning (different agencies);
- **BOYS BOARDING-SCHOOL BRAGANÇA** - Electrical Installations;



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- **CAIXA NACIONAL DE PENSÕES** - Noise Control (Emergency Group);
- **FIMA - IMPERIAL FACTORY OF MARGARINES** - Noise Control in Industrial Installations;
- **TRANQUILIDADE INSURANCE COMPANY** - Architectural Acoustics & Noise Control in Technical Installations;
- **CENTREL - AUTOMÁTICA ELÉCTRICA PORTUGUESA** - Noise Control in Industrial Installations;
- **BANCO PORTUGUÊS DO ATLÂNTICO** - Noise Control in Technical Installations;
- **OFFICE BUILDING (VICTOR CORDON, LISBON)** -Electrical Installations and Fire Detection
- **HEAD BUILDING OF PORTUGUESE SHELL** - Noise Control in Technical Installations;
- **NEW CENTRAL HOSPITAL OF COIMBRA** - Noise Control in Technical Installations;
- **POST AND TELECOMMUNICATIONS OF PORTUGAL (SOCIAL WORKS)** - Architectural Acoustics, Lighting and Technical Installations;
- **WELFARE REGIONAL CENTRE** - Architectural Acoustics (amphitheatre);
- **COMIBERLAND (NATO OEIRAS)** - Noise Control in Technical Installations;
- **SINTRA-ESTORIL HOTEL RESTORATION**- Technical Installations following the Nov/83 flooding;
- **COMPUTER CENTRE OF CAIXA GERAL DE DEPÓSITOS (BANK)** – (Padre António Vieira street) Noise Vibration Control in Technical Installations and Architectural Acoustics;
- **AUTODROME OF ESTORIL** - Planning, Realization and Supervision of the new Electromechanics Installations for the Portuguese Formula 1 /1984 Grand Prix
- **AUTODROME OF ESTORIL** - Project of the Technical and special Installations relating to the great remodelling achieved in 1993 for the Portuguese Formula 1 /1993 Grand Prix.

Part of the project team which developed the Technical and special Installations projects of the following assignments:

- **HEAD OFFICE BUILDING, IN LISBON, OF THE CREDIT FRANCO-PORTUGAIS;**
- **REMODELLING OF ABRANTES HOTEL;**
- **D. PEDRO HOTEL, IN PORTO;**
- **MERIDIEN HOTEL, IN LISBON;**
- **CAIXA GERAL DE DEPÓSITOS (BANK), IN LISBON, (COMPUTER CENTER)**
- **"PINE CLIFFS" TOURISTIC VILLAGE- ALBUFEIRA**

Responsible for the plan realization on Technical and Special Installations and the supervision of the following assignments:

- **MATUR CHAPEL** - Machico, Madeira;
- **ESTORIL F1 MOTOR RACING** - Modifications and remodelling for the Formula 1 races of 1984, 1985, 1986;
- **SOLFÉRIAS APARTHOTEL** - Carvoeiro, Algarve - Modifications and Remodelling;
- **ODIVELSOL** - Odivelas - Residential Building;
- **CULTURAL CENTRE OF TEATRO GINÁSIO**, Rua Nova da Trindade in Lisboa - Only in the project phase;
- **MUNICIPAL SWIMMING POOL OF FIGUEIRÓ DOS VINHOS** - Utilizing Solar Energy to heat pool water. (Only involved in the project planning phase);
- **TEXTO EDITORA** - Remodelling of the Installations of the Head-office building - this including Technical and Special Installations as well as the architecture and engineering;
- **TEXTO EDITORA** - Administrative Services and Computer Centre.
- **TEXTO EDITORA** - Graphical Industry Installations.



Teaching experience

Teaching experience, as lecturer and course director, in the following subject areas:

- Electrical Machinery;
- Electrical Material Technology;
- Lighting;
- Electrical Installations;
- Control in Electrical Energy Systems;
- Advanced Calculus and Vector Analysis;
- Physics I - Mechanics;
- Production and Transportation of Electrical Energy;
- Alternative Energies and Energy Economy;
- Economics and Energy Management

At I.M.P.E. Director functions for Electrical Engineering Departmental Studies - Energy and Power Systems branch - and of the Electrical Machinery Laboratories, during the period of 1980 to 1987.

Cooperation with Mechanics Engineering Dep. at I.S.T – Instituto Superior Técnico teaching a subject dedicated to Energy Management at the degree course and Master's degree.

Invited teacher at UAL – Universidade Autónoma de Lisboa, responsible for subjects in post-graduation courses in the Energy area



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Published articles and academic works

Development of various reports and articles in the field of ENERGY the most notable being:

- FERREIRA, João de Jesus. **"What Energy?"**. Opening lesson given in the Solemn Opening Session of the academic year of 1984/1985. I.M.P.E., November 1984.
- FERREIRA, João de Jesus. **Bibliographic Dossier on Energy and Economic Growth**", ISE, Lisboa, 1986
- FERREIRA, João de Jesus. **"The Economy of Energy"**, *The Electrician magazine*, January/July 1986, Pag. 19 and 22.
- FERREIRA, João de Jesus. **"Evaluation of Renewable Energy Resources in Portugal"**. CEEETA, Lisboa 1987.
- FERREIRA, João de Jesus. **"Evaluative Summary of the Energy Potential from the Conservation and Rational Use of Energy"** CEEETA, Lisboa 1987.
- FERREIRA, João de Jesus. **"Region of Lisboa and Vale do Tejo - Energy Characteristics"**, CEEETA, Lisboa, 1987.
- FERREIRA, João de Jesus. **"National Resources on the Valoren Program Curriculum"**, 2nd Managerial Meeting of the National Park Service, Reserves and Preservation of Nature, Tróia 1987.
- FERREIRA, João de Jesus. **"Application Méthodologique-Étude de Marché/Collecteurs Solaires et Énergies Renouvelables"**, CREM, Martigny 1897.
- FERREIRA, João de Jesus. **"Activity report at the Centre de Recherche et d'Enseignement en Energie et Techniques Municipales"**, Martigny - Switzerland. CEEETA, Lisboa 1987.
- FERREIRA, João de Jesus. **"Rational Use of Energy in Small and Midsize Businesses"**. PME Portuguese Confederation, Lisboa 1988.
- FERREIRA, João de Jesus. **"Solid Wastes as Energy Resources"**, D.G.E., Lisboa, April 1988.
- FERREIRA, João de Jesus. **"Rational Use of Energy and Environment"**; VI Environmental Seminar, Almada, June 1988.
- FERREIRA, João de Jesus. **"Energy Conservation in Portugal"**, D.G.E., Lisboa, June-1988.
- FERREIRA, João de Jesus. **"The Valoren Program and Endogenic Energetic Resources"**, D.G.E., Lisboa, June 1988.
- FERREIRA, João de Jesus. **"The Evolution of the Energy Sector in Portugal - The Conservation of Energy"**, D.G.E., Lisboa, August 1988.
- FERREIRA, João de Jesus. **"Energy and Economy - The Conservation of Energy"**, I.S.E., Lisboa August 1989.
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