



**EXERCITO PORTUGUÊS
ACADEMIA MILITAR**

CINAMIL

CENTRO DE INVESTIGAÇÃO, DESENVOLVIMENTO E INOVAÇÃO DA ACADEMIA MILITAR

Ficha de Diretor do Projeto ou Investigador / File of Project Director or Researcher

Dados Pessoais / Personal Data		
Nome/Name:	Manuel Peres Alonso	
Instituição/Institution:	Instituto Superior Técnico. Universidade de Lisboa	
Categoria/Category:	Professor convidado. Técnico Superior.	
Membro / Member:	Associado / Associate:	Efetivo / Effective:
Data de Admissão / Date of Admission:		
Email:	Manuel.alonso@tecnico.ulisboa.pt	

Formação Académica / Academic Training				
Ano/Year	Grau/Degree	Área/Area	Instituição/Institution	Classificação/Mark
2002	Doutoramento	Física de Plasmas	Instituto Superior Técnico. Universidade Técnica de Lisboa	Aprovado
1995	Mestrado	Física	Instituto Superior Técnico. Universidade Técnica de Lisboa	Aprovado
1987	Licenciatura	Engenharia Física	Faculdade Ciências Tecnologia, Universidade Nova Lisboa	14 Valores

Participação em Investigação e/ou atividades de desenvolvimento profissional relevantes (5 referências) / Relevant participation on research and/or high level Professional development activities (5 references)

Limite: 300 caracteres por referência

He is an invited Lecturer of Physics and researcher in hot plasma physics in the University of Lisbon, Instituto Superior Técnico.

He teach laboratory experiments related with mechanics, waves, optics, electromagnetism and thermodynamics.

Actually (2013) is collaborating in the development of new materials made of copper with Nano diamond for use in future fusion reactors at the "Instituto de Plasmas e Fusão Nuclear", Lisbon.

Previously during 2011 and 2012 he was doing research in the development of an experiment to produce ultra-cold rubidium plasma.

From 2005 up to 2010 he was the principal Portuguese researcher and leader in the development of a Thomson Scattering Diagnostic for the tokamak TCABR. This work was made inside a Portuguese (the Lisbon Technical University) and Brazilian (the São Paulo University) collaboration's frame for the development of Nuclear Fusion machines.

Experiência Profissional relevante área de Investigação (5 referências) / Relevant Professional Experience (5 references)

Limite: 100 caracteres por referência

He is a researcher in "Plasma Physics" designing and commissioning a set of essential optical diagnostics for the Tokamak ISTTOK.

He developed and tested custom Lasers and Plasma applications for industrial purposes. Particularly he designed few CO2 lasers of different sizes and complexity for teaching and training applications. For the Portuguese Air Force in 1991 he developed a CO2 laser with folded cavity and transportable to the outdoors and with Prof Carvalho Rodrigues of LNETI.

Researcher ID

<http://www.researcherid.com/rid/A-4836-201>

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Google scholar page

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Projetos / Projects	Início / Fim do Projeto Beginning / End of Project	Observações / Notes