

CURRICULUM VITAE

Date: 13/2/12

1 Personal data:

1.1 Name: Manuel Sanchez

1.2 Date of birth: 14/3/52

1.3 Nationality: Spanish, NID=24358375H

1.4 Engineering association (Colegio Ingenieros Industriales Andalucía Oriental) number: 1248



2 Education

2.1 University education

Title	Institution	Date
Ingeniero Mecánico (Mechanical Engineer)	Universidad Simón Bolívar, Caracas, Venezuela	29/7/77
Magister Scientiarum en Ingeniería Hidráulica (MSc Hydraulic Engineering)	Universidad Central de Venezuela, Caracas, Venezuela	28/1/83
Ingeniero Industrial Superior Mecánico (Mechanical Engineer)	Escuela Técnica Superior de Ingenieros Industriales, Universidad Nacional de Educación a Distancia (ETSII UNED), Madrid, Spain	26/9/95
MSc in Thermal Power Gas Turbine Technology	Cranfield University School of Mechanical Engineering Cranfield, UK	12/6/98
PhD in Manufacturing Engineering	The Queen's University of Belfast, School of Aeronautical Engineering, Belfast, UK Spanish acknowledgement credential: 2005/H02251	3/7/01 21/3/05
Thesis	Institution	Date
Programa para calcular el comportamiento estacionario de un turborreactor simple (Programme for calculating a simple turbojet stationary performance)	ETSII UNED	22/9/95
A Study about the Mechanical Design of High Bypass Turbofans	Cranfield University, School of Mechanical Engineering Cranfield, UK	19/5/97
Optimisation of tolerances and manufacturing procedures for aircraft surface features	The Queen's University of Belfast, School of Aeronautical Engineering, Belfast, UK	15/9/00

2.2 Courses

Diploma/Title	Institution	Date
Técnico Mecánico Aeronáutico (Mechanic of aircraft)	Instituto Americano. Madrid, Spain	9/5/90
Introdutorio Modelado de sólidos ANSYS (Finite Element Analysis (FEA))	INGECIBER. Madrid, Spain	19/4/91
Teoría y aplicación práctica del método de elementos finitos (FEA)	ETSII UNED. Madrid, Spain	31/7/92
3D/AME speciality level AUTOCAD (CAD)	Escuela de Sistemas Informáticos. Madrid, Spain	18/12/92
Gas Turbine Design and Performance	Cranfield University, School of Mechanical Engineering, Cranfield, UK	18/11/94
Supervising research students and staff	Queen's University, Belfast, UK	5/2/97
Small group teaching	Queen's University, Belfast, UK	6/2/97
Time management	Queen's University, Belfast, UK	14/2/97
An introduction to programming in C	Queen's University, Belfast, UK	24/3/97
Project management	Queen's University, Belfast, UK	16/4/97
Introduction to Access course	Queen's University, Belfast, UK	22/4/97
Technical report writing	Queen's University, Belfast, UK	20/5/97
Presentation skills	Queen's University, Belfast, UK	22/5/97
Interview techniques	Queen's University, Belfast, UK	3/11/97
Optimisation of aircraft structures	Queen's University, Belfast, UK	26/1/98
Negotiating assertively	Queen's University, Belfast, UK	21/5/98
HNC in electrical and electronic engineering	Belfast Institute of Further and Higher Education, Belfast, UK	1/7/01
Aspectos energéticos del código técnico de la edificación (Building construction technical standard energy features)	Colegio Oficial de Ingenieros Industriales Superiores de Andalucía Oriental, Málaga, España	18/11/06

2.3 Software tools

Name	Application
ALGOR	Strain, stress and vibration calculation by FEA
ANSYS	Strain, stress, vibration and heat transfer calculation by FEA
AUTOCAD	CAD
C	General purpose computer language
EXCEL	Worksheet
HTML	Mark-up language for web pages
MATLAB	Computer aided mathematics
PCB	Electronic circuits CAD
POWER POINT	Slide editor
VISUAL BASIC	General purpose computer language
WORD	Word processor
WORKBENCH	Electric and electronic circuits simulator

2.4 Languages

Name	Level
Spanish	99% fluency
English	80% fluency
French	65 % fluency

3 Professional activity

3.1 Sociedad de ingeniería (SODINSA), Caracas, Venezuela

Position	Activity	Date
Mechanical engineer adviser, designer	Five projects in anti–fire, hydraulic and mechanical engineering,	7/77 to 3/80

3.2 Universidad Simón Bolívar, Caracas, Venezuela

Position	Activity	Date
Lecturer	43 quarterly courses of machine design, engineering design, strength of materials and fluid mechanics	4/80 to 4/83
Senior lecturer		4/83 to 9/87
Head of the design and strength of materials section of the department of mechanics	Section management	9/84 to 9/87
Researcher	Transient flow in pipes study by means of the "ondas físicas asociadas" method.	10/83 to 12/87

3.3 Instituto de Astrofísica de Canarias (IAC), La Laguna, Tenerife, España

Position	Activity	Date
Mechanical designer	IAC80 telescope mechanisms testing bench design	10/88 to 3/89
Mechanical designer	Design and fabrication supervision of the GOLF space instrument mechanical structures (onboard ESA/NASA SOHO spacecraft).	4/89 to 12/93
Mechanical designer	Design of the cryostat moving table and equipment supporting structure of the Cámara Infraroja instrument for the Carlos Sánchez telescope.	1/94 to 6/94

3.4 School of Aeronautical Engineering, The Queen's University of Belfast, UK

Position	Activity	Date
Researcher	Responsible for the manufacturing engineering part of the project Simultaneous Optimisation of the Aerodynamic and Manufacturing Tolerances of Aircraft Structures to reduce life cycle cost (SOAMTAS)	5/96 to 4/99

3.5 Kleeneze Ltd, Westlea, Swindon, UK

Position	Activity	Date
Direct agent	Network sales	7/97 to 12/97

3.6 Nortel Networks Plc, Newtownabbey, Northern Ireland, UK

Position	Activity	Date
Temporary trainee test technician	Fast track HNC training course in electrical and electronic engineering	11/00 to 5/01

3.7 Free professional , Málaga, Spain

Position	Activity	Date
Consulting engineer	Technical report about the failure of a building structure. Juzgado de 1ª instancia 12 de Málaga procedure N° 538/2004	1/7/05 to 3/5/07
Consulting engineer	Technical report about a car accident. Juzgado de 1ª instancia 8 de Málaga procedure N° 1098/2005	6/06 a 6/08
Consulting engineer	Evaluation of the real value of a pharmacy business. Local tax agency procedure SUCDONOL EH2904-2005/192. TPC num: 0014/07-OL	6/07 a 10/07
Consulting engineer	Underwater moving bodies drag forces and driving of rotating bodies	9/09
Private tutor (secondary education)	Chemistry, Mathematics, Physics	9/02 to 6/11
Private tutor (high school)	Chemistry, Economics, Mathematics, Physics, Statistics, Technical drawing	9/02 to 2/12

Private tutor (university)	Mathematics (Algebra, Calculus, Logic, Numerical methods), Mechanics, Physics, Psychometrics, Statistics, Strength of Materials and Elasticity, Structures, Technical drawing, Thermodynamics	9/02 to 1/12
Studies academy lecturer (university)	Chemistry Academia Universitaria Gauss, Málaga, España	8/11 to 1/12

4 Publications

4.1 M Sánchez Mateos, “Evaluación del flujo transitorio en sistemas hidráulicos de bombeo”, Anales de Ingeniería Mecánica (journal of the Asociación Española de Ingeniería Mecánica), year 4, number 1, pages 231–236, 12/86

4.2 M Sánchez Mateos, “Ondas de presión y de caudal en sistemas hidráulicos sencillos”, Anales de Ingeniería Mecánica, year 4, number 1, pages 237– 242, 12/86

4.3 M Sánchez Mateos, “Estudio del flujo transitorio en sistemas de bombeo dotados de turbobombas conectadas en serie-paralelo”, Anales de Ingeniería Mecánica, year 5, number 2, pages 243–248, 12/87

4.4 J M Herreros, T Roca Cortés, M Sánchez, “El Proyecto GOLF en el SOHO”, Tribuna de Astronomía, number 87, pages 51 to 58, 2/93

4.5 A H Gabriel, ..., J Charra, ..., T Roca Cortés, ..., E Céspedes, ..., J M Herreros, H Lagardère, J P Moalic, ..., M Sánchez, ... "Global Oscillations at Low Frequency from the SOHO Mission (GOLF)", Solar Physics, volume 162, numbers 1-2, pages 61-99, DOI: 10.1007/BF00733427, 1995.
<http://www.springerlink.com/content/v132733j3133r334/>

4.6 M Sánchez, K Kundu, B Hinds, S Raghunathan, “A Methodology for Assessing Manufacturing Cost Due to Tolerance on Aerodynamic Surface Features on Turbofan Nacelles”, The International Journal of Advanced Manufacturing Technology, volume 14, number 12, pages 894–900, ISSN 0268–3768, 1998

5 References

5.1 Colegio Oficial de Ingenieros Industriales de Andalucía Oriental, Delegación de Granada. Gran Vía de Colón, 21, 4º, D, 18001 Granada, Spain. Tel 958 27 43 00, 958 27 43 04, fax 958 27 43 54, Email coiigr@iies.es .

Colegio Oficial de Ingenieros Industriales de Andalucía Oriental, Delegación de Málaga. Av de Andalucía, 30, Entresuelo, 29007 Málaga, Spain. Tel 952 30 57 12, fax 952 30 57 08, Email coiima@coiiaor.es .

Dr Manuel Sanchez

Email: msm_77@hotmail.com

www.telefonica.net/web/msm77

Malaga, Spain