

Work Experience

FluidTech Aalborg, Denmark. CO-FOUNDER & CHIEF TECHNOLOGY OFFICER

Oct. 2016 - PRESENT To provide scientific leadership, technical and operational expertise and guidance. In charge of the project management from a technoeconomical standpoint, promotion, scope and market studies for the design and implementation of low-grade energy recovery solutions using innovative Micro Organic Rankine Cycles.
.
Promoting and pitching of the company's projects and fund raising

AIRBUS Defence & Space Madrid, Spain. MRO OF INDUSTRIAL COMPONENTS AND MACHINES

Jan. 2016 - June 2016 Maintenance, Repairs and Operations engineer for military aircraft: Eurofighter Typhoon and A400M.
.
Creating operation procedures and plans for aircraft maintenance

EF Education First. UK and USA

COURSE LEADER FOR INTERNATIONAL LANGUAGE TRAVELS

Jan. 2014 - Jan. 2019 Tutor for teenagers aged 15-18 in the UK and USA

. English teaching
. Organisation of events and activities

Carlos III University of Madrid Robotics Department Madrid, Spain. PROGRAMMER & DESIGNER

Jan. 2013 - Feb. 2014 • Design and programming of an open-source 3D printed humanoid robot

Education

Sep. 2016 - Jun. 2018 M.S. Energy Engineering. Specialisation in Thermal Energy and Process Engineering Aalborg, Denmark. AALBORG UNIVERSITY

Sep. 2011 - Jun. 2016 B.S. Mechanical Engineering. Specialisation in Energy and Aerospace Technologies Madrid, Spain. CARLOS III UNIVERSITY OF MADRID

Sep. 2014 - June 2015 M.Sc. Energy and Aerospace Engineering Pisa, Italy. PISA UNIVERSITY

Language Skills

. Spanish - NATIVE
2016 English - Cambridge. CAE FULL PROFESSIONAL PROFICIENCY
2015 Italian - CELI B2 Università di Pisa. INDEPENDENT USER
2019 Danish - Module 3.3 Sprogcenter Aalborg. BASIC USER

Projects & Research Experience

SOME EXAMPLES OF RESEARCH PROJECTS CARRIED ON:

.
• Power Generation by Pressure Retarded Osmosis: A Study in Power Plant Energy Production and Optimisation (2017)
• Efficient Design for Thermoelectric Generators in High-Concentrated Beam-Split Photovoltaic Hybrid Systems (2017) <https://fdocuments.net/document/efficient-design-for-thermoelectric-generators-in-high-concentrated-beam-split.html>
• Global Trajectory Optimisation of a Space-Based Very-Long-Baseline Interferometry Mission (2016) <https://e-archivo.uc3m.es/handle/10016/24835>

Software

CFD OPENFOAM, ANSYS FLUENT
Programming PYTHON, MATLAB, MACHINE/DEEP LEARNING, GENETIC ALGORITHM OPTIMISATION
CAD/CAE ABAQUS, SOLIDWORKS, SOLIDEDGE
Graphic Edition ADOBE PHOTOSHOP, ILLUSTRATOR, INKSCAPE

Soft Skills and Courses

2012 Fist Aid. Madrid, Spain. SPANISH RED CROSS
2013 3D Printer Operator. Madrid, Spain. CARLOS III UNIVERSITY OF MADRID
2013 Public Speech, Communication and Argumentation Course. Madrid, Spain. CARLOS III UNIVERSITY OF MADRID

2017 Hypersonics: From Shockwaves to Scramjets Course - EDX
2014 Operations Management Course - COURSERA
2019 Entrepreneurship and Project Management Courses. Aalborg University. SEA AND AALBORG UNIVERSITY

References

Thomas Condra - tc@et.aau.dk
Aalborg, Denmark

AALBORG UNIVERSITY - FLUID MECHANICS

Chungen Yin - chy@et.aau.dk
Aalborg, Denmark

AALBORG UNIVERSITY - COMPUTATIONAL FLUID MECHANICS

Manuel Sanjurjo - manuel.sanjurjo@uc3m.es
Madrid, Spain

CARLOS III UNIVERSITY OF MADRID - AEROSPACE ENGINEERING AND ORBITAL MECHANICS