Francisco Muro

Master of Engineering

Birth date and place: 18 Feb 1993, Madrid, Spain

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KEY COMPETENCIES

- ✓ Major in Aerospace Engineering | Minor in Aerospace Propulsion
- ✓ Master in Entrepreneurial Engineering | Problem Based Learning study method
- ✓ Agile Software Development | Master thesis and professional experience
- ✓ Full-Stack Software Development | Experience in 6+ programming languages
- ✓ Creative and methodical problem analysis and solving | Thinking out of the box

PROFESSIONAL EXPERIENCE

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08/2018 - 10/2019	Silexica – Cologne, Germany Agile Project Management (Internship, master thesis)
SILEXICA	 Planning and implementing agile adoption Enacting change and continuous improvement Jira/Bitbucket Admin + backend automation scripting
03/2017 - 07/2017	Tadorea – Madrid, Spain Airspace Data Infrastructure Engineer
TADOREA KNOWLEDGE DISCOVERY FOR AVIATION	 R&D of Air Traffic Analysis tools Development of runway allocation software Analysis of airspace and runway usage
09/2016 - 02/2017	NASA - Human Systems Integration Division - NASA Ames, CA, USA Research & Development (Internship)
NASA	 Data analysis and software development supporting research for Air Traffic Management tools Running human-in-the-loop simulations for data collection of innovative ATM tools
03/2016 - 07/2016	The Innaxis Foundation & Research Institute – Madrid, Spain Research & Development (Internship)
innovation for a complex world	Decoding ADS-B signalsStudying opportunities and feasibility for ATM analysis
12/2015 - 02/2016	Deutsches Zentrum für Luft- und Raumfahrt (DLR) – Braunschweig, Germany

☐ Research of GNSS based relative navigation for intentional

☐ Implementation of algorithms and analysis of experiments

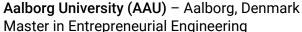
Research & Development (Internship)

approximation of aircraft



EDUCATION

2017 - 2019



Master in Entrepreneurial Engineering



- ☐ Master thesis: "A method to improve and adopt agility in growing organizations: a high-tech software company case study"
- Design based innovation
- Agile business navigation
- Corporate intrapreneurship
- Applied business modelling

2011 - 2017



Universidad Carlos III de Madrid (UC3M) – Spain

Bachelor of Science: Aerospace Engineering

Minor in Aerospace Propulsion

2014 - 2015



Technische Universität Braunschweig (TU BS) - Germany

Erasmus exchange - 2 semesters

Bachelor of Science: Luft- und Raumfahrttechnik

2013 - 2014



Nanyang Technological University (NTU) - Singapore

International exchange – 2 semesters Bachelor of Science: Aerospace Engineering

Languages

Spanish - Native

English - Fluent (2017: TOEFL score; 109/120 or C1+)

German - Fluent (2016: B2 level, +4 years living in Germany)

IT Skills

MS Office: Advanced

Coding: Matlab, Python, Java, JavaScript, C++, Groovy Proj. Mgmt.: Atlassian Jira/Bitbucket Admin, Scriptrunner

FEM: SolidWorks Fluent CAD: Siemens Solid Edge

PERSONAL PROFILE

I'm excited to join innovative and leading edge technology projects. I want to release my creative potential and take advantage of my multidisciplinary skills to make a greater impact, while ready to be surprised, curious about new knowledge and taking ownership of my results.

Digital Artist

Another way to fulfill my urge of closing the gap between inert technology and human psychology is to code and build interactive visual arts. As a hobby I design and implement physical light installations, wearables and IoT lighting solutions. It's absolutely fulfilling and mesmerizing.

International Experience

As a child at an English boarding school I learned how to be independent and responsible regardless of cultural differences. I further developed my curiosity and audacity as a teenager with exchange programs to the Netherlands and New York. During my bachelors I deeply experienced South East Asia, Germany and California. The internship at NASA and living in Silicon Valley was the most fulfilling experience of my life. In my masters in Denmark I acquired exciting skills that will be key for the future of my career. Currently, Cologne offers me a very satisfying stage of my life for self introspection and bonding with diverse and open-minded individuals.