

# Francisco Muro

## Master of Engineering

Birth date and place: 18 Feb 1993, Madrid, Spain  
Based in: Cologne, Germany  
E-Mail: [fco.muro2@gmail.com](mailto:fco.muro2@gmail.com)  
Phone: +491786815315  
LinkedIn: [linkedin.com/in/francisco-muro-006a7895](https://www.linkedin.com/in/francisco-muro-006a7895)



## 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

08/2018 - 10/2019 **Silexica** – Cologne, Germany  
Agile Project Management (Internship, **master thesis**)



- ❑ 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



- ❑ 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)



- ❑ 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)



- ❑ Decoding ADS-B signals
- ❑ Studying opportunities and feasibility for ATM analysis

12/2015 - 02/2016 **Deutsches Zentrum für Luft- und Raumfahrt (DLR)** – Braunschweig, Germany  
Research & Development (Internship)



- ❑ Research of GNSS based relative navigation for intentional approximation of aircraft
- ❑ Implementation of algorithms and analysis of experiments

## EDUCATION

2017 - 2019



**Aalborg University (AAU)** – Aalborg, Denmark  
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.