

Internship Assignment

Olympics and Green Airports (OLGA)



About Assaia

Assaia International Ltd. is a Swiss aviation tech company with a global presence. At the core of their product offering sits an AI, deep learning-based, system that monitors and analyses aircraft turnarounds using video streams. We provide an Artificial Intelligence solution that watches turnarounds in real time to understand what is happening and offers predictive analysis to better manage operations. See details and demos on our website and YouTube channel!

We were founded in February 2018 and are working on pilot and production deployments at airports across the whole world.

We currently have a working system developed, 3 signed multi-year contracts and more than 40 customers with which we are in post-pilot negotiations. Furthermore, we keep innovating and developing new tech solutions to help airports become more efficient, safer and more sustainable. This is why we need you!

The Assignment

Together with Aeroports de Paris (operator of all Parisian airports and 26 other international airports) we are researching, designing and testing a new solution that aims to make airports more sustainable. The objective of the assignment is to develop a solution that is able to detect whether the Auxiliary Power Unit (APU) of an aircraft is on or off. The APU is an engine in the tail of the aircraft that is used to generate electricity for the aircraft. Most airports provide much more efficient and sustainable Ground Power Units (GPUs) which should prevent the APU from being used. However, APU emissions still contribute between 6-16% of all ground emissions at airports.

The goal is to develop a system that can detect undesired APU usage so that the airport authorities can act and minimise APU emissions to ultimately make the airport more sustainable.

We are looking for an intern who can assist us with analysis, research, design and testing activities related to this project.

Responsibilities

Ultimately, we are looking for someone who will analyse requirements, research solution options, design the ideal solution and test it in practice. According to our own research and development philosophy we can envision the following responsibilities:

- Analyse existing processes around APU usage and enforcement rules
- Define business and technical specifications and requirements
- Create acceptance test criteria

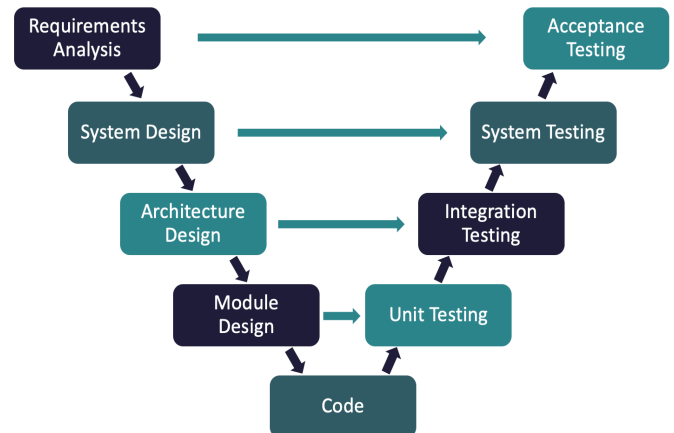


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- Research different technical solutions
- Create high level system design and system test criteria
- Create architecture design and integration test criteria
- Create component design and component test criteria
- Perform component, integration and system testing
- Create test reports
- Extensively document all efforts from previously mentioned activities



Requirements

- Background in engineering, integrated (hardware/software) solution design and/or IOT solutions.
- Fluent English.
- Proactive attitude, can-do mentality and creative mindset.
- Detailed, meticulous and willing to extensively document all efforts undertaken.
- Great collaboration skills, excellent communication skills.
- Ability to think scientifically about solution design, hardware / software integration and component selection.
- Technical background.
- Would be a plus: experience in the aviation industry

Why Assaia

Assaia is a unique place where you can work on a technically advanced product built with novel technologies, in a team of people that have a lot to learn from each other — all this without leaving your home — or sunbed, if you wish!

Additionally, we offer:

- The opportunity to help create a product that might one day be present at all airports in the world to make them more sustainable.
- Keeping a flat hierarchy and close to zero bureaucracy; you have to make important decisions from day 1.
- Your ideas will be heard and directly implemented if they bring value to the company.
- Always remote work and a flexible schedule.
- Agile processes.
- Great company culture based on honesty and mutual respect.

