**Internship in Control Systems**

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**Role Summary:**

The training path of the internship will be included in a project aimed to the development, implementation and validation of components for a control system that will be used to manage a hybrid-electric power train. The work scope is part of the project PON03PE\_00067\_7 named “Aeronautical Hybrid Energy Management” and will be performed in the Energy Factory Bari laboratory.

**Essential Responsibilities:**

The intern will be involved in the following activities with the Avio Aero team:

* Model of single components of the power train.
* Test in SW in the loop environment.
* Test in HW in the loop environment.
* Perform the design activity requested to develop the control system.
* Collaborate with MEA team (Avio Aero, Poliba, Unisalento, ITAE-CNR) to pursue the project goals.
* Proactively support other engineering tasks of MEA project.
* Prepare proper documentation of technical data generated for the assigned tasks.
* Assure consistent with engineering policies and procedures of all the documentation and analyses completed.

**Qualifications/Requirements:**

* Master Degree in Control Systems Engineering/Electrical Engineering from an accredited university.
* Knowledge of Mathworks softwares (MATLAB/Simulink).
* Knowledge of LabView.
* Knowledge of C/C++.
* Knowledge of FPGA.
* English fluency.
* EU Work Permit.

**Desired Characteristics:**

* Passionate, curious and enthusiastic for engineering challenges.
* Demonstrated ability to analyze and resolve problems.
* General team work skills.

**Location:** Italy; Bari