Research engineer position at ENAC
8 months

The French National School for Civil Aviation (ENAC) is **urgently** looking for a research engineer (with or without a Ph.D.) to work on a research project called SkyScanner (founded by RTRA-STAE) for **8 month** following the departure of the previous candidate.

The aim of SkyScanner (https://www.laas.fr/projects/skyscanner/) is to study and experiment a fleet of mini-drones that coordinate their trajectories for adaptively sample cumulus-type clouds and gather meteorological data. Many challenges are tackled by the five partners (LAAS-CNRS, ENAC, ONERA, ISAE-Supaero, Meteo-France) of the project, including clouds micro-physics modeling, optimal flight control, energy harvesting or fleet coordination.

Enac is currently in charge of integrating the different parts and algorithms developed during the project in order to perform complete system simulations and real flights experimentations during the last phase (summer 2016). In particular, a guidance control loop need to be developed and implemented for the Paparazzi UAV system (http://paparazziuav.org) to make the connection between the low-level flight controls from ONERA and the high-level trajectory planning from LAAS-CNRS.

The candidate should show a good knowledge in **embedded systems**, especially programming skills in C, and **control of dynamic systems**. It would also be preferable to have experiences with UAV systems – and even better with Paparazzi.

Contact:

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