



## < ArrowDynamics >

Pilots are flying in increasingly **challenging environments**, with high density air traffic, over more and more built-up areas, with inhabitants who understandably resent disturbance.

The growing number of planes, both for commercial and leisure purposes, creates new dangers, requiring **intense concentration** on the part of pilots. The airport approach is a critical moment for all pilots, but particularly for trainees.

Furthermore, this overhead traffic brings noise and environmental pollution, and thus frequent complaints from **local people**. These new and pressing issues are being studied by local committees, anxious for quick efficient solutions.

In this context, initiatives are being undertaken, such as the **AeroSaclay contest**, engineering students have been given the task of **developing technologies** to find **innovative solutions**.







## WHAT IS AT STAKE ?

To **reduce** the **impact** of general aviation on the **environment** and to comply with **airspace regulation**, pilots need to follow **precise paths**.

Our product, **ArrowDynamics**, is the **ideal solution** that provides **directional help** thanks to a device in your **cockpit**.





## LOOKING FORWARD!

Our system performs various functions:

We are designing a portable solution to equip an aircraft that navigates in a complex environment. However we fully understand that you may not need a mounted solution in all airplanes. That is why we have developed an **android app** that keeps the main features of our **solution**.



## THE DYNAMIC TEAM



Paul FAUGERAS



1st year Student at CentraleSupelec

I am passionate about aircraft modeling. At CentraleSupélec, I've learned many things about engineering systems and modeling. I love computer science and the opportunity it gives for innovation in order to create new technologies. I believe our project is an

opportunity to improve the comfort of both

I am a drone builder and pilot, a talented coder and a passionate electronician. I have always been curious about everything that flies, love understanding how things work, and enjoy developing my own projects, revolving around small electronics and big ideas.



1st year Student at CentraleSupelec



new and experienced pilots.

Ugo MARTINEZ



2<sup>nd</sup> year Student at CentraleSupelec

I have always been passionate about aeronautics, and this year I took the opportunity to train for my PPL (Private Pilot Licence). Learning such new skills is very exciting, and at the same time I can clearly comprehend the issues which are experienced daily by pilots, such as precise navigation and integration into airport circuits.

As an SEP Pilot and glider instructor, I have a deep knowledge of the complexity of flying and the challenges associated with learning. With many years of practice, I enjoy sharing my experiences and giving advice, taking the project to new heights.



2<sup>nd</sup> year Student at CentraleSupelec