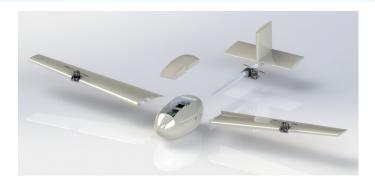
PABLO PARAMIO

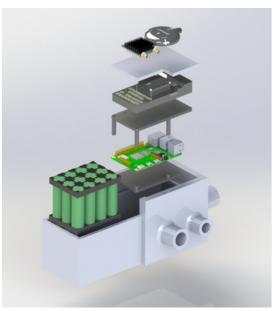
ELECTROMECHANICAL ENGINEER AT COMILLAS UNIVERSITY (ICAI)



EARLY WILDFIRE DETECTION UAV







What?

- Currently designing a VTOL UAV equiped with IR thermal camera capable of early wildfire detection
- Early prototyping stage

How?

- Used SolidWorks to design general concept assembly
- Coded Raspberry Pi with Python to interpret IR sensor data
- Fully autonomusly controlled by PixHawk FC using ArduPilot
- Communication of flight path and temperature data with ground station through MAVLINK
- Custom soldered battery

CINEMATIC FPV DRONES



What?

Designed, soldered and assembled three sepparate
FPV drones with cinematic purposes

How?

- Thorough selection of electrical components (motors, ESCs, PDBs, BECs, FC, Video TX, Radio RX, etc.
- Tin soldered every component together
- Assembled everything into carbon fibre chassis

Results

- Three fully functional drones with great cinematic characteristics for creative and otherwise impossible shots
- Demo: https://www.youtube.com/watch?v=j5z-rMG1Xpl

ESC PCB DESIGN

What?

- Currently working on the design of a BLDC motor sensorless ESC
- KiCAD PCB design experience
- Design stage

