



**FUSION**  
ENGINEERING

**EXPERTS IN FLIGHT  
CONTROL TECHNOLOGY**

# Flight Controller: The Brain of the Drone

## What does it do?



The flight controller's function is to:

- Receive sensor data
- Compute position and orientation
- Tell rotors how fast they need to spin
- Monitor system information
- Provide a control interface for the operator



# A professional solution unlocking new drone applications

## Technology

**Innovative flight control algorithms**  
(INDI & FTC)

**Designed for reliability**  
(100% Custom software and hardware)

**Programmed in Rust**  
(Modern language designed for performance and reliability)



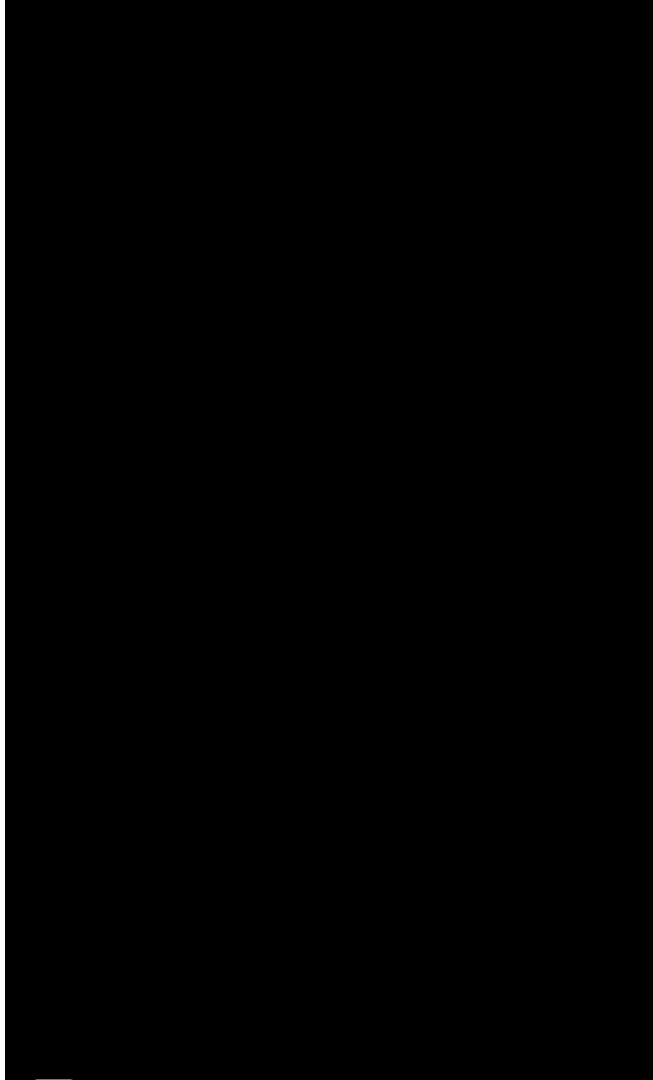
## Benefits

**Fly in high windspeed conditions**

**Allow higher risk-class missions**

**Efficiently prevent crashes**

VIDEO

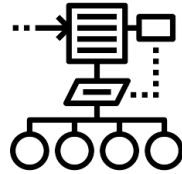


# AIRTuB: What do we bring in?



## **Flight path accuracy**

For camera sensor  
and crawler payloads



## **INDI algorithm**

Used to achieve  
accurate and stable  
flight paths



## **Innovation**

To bridge the gap  
between academia  
and the real world

**New technology** applied to **larger airframes** in **real world** applications