



## The Science of Flight : Road to Techlympics

If you're looking for an exciting way to kick off your Techlympics campaign, you are at the right place already. Let the STEM games begin!

Drones are revolutionizing many different industries. Examples of the effects of drones can be seen in prototypes such as Airbus's use of drones for urban private air mobility or Uber Elevate's development of shared air transportation—planned for 2023—between suburbs and cities, and ultimately within cities. Additionally, Amazon has plans to use drones for product delivery, and Skyspecs is already using drones for large scale infrastructure inspection, accomplishing tasks that would be difficult, or even dangerous for humans.

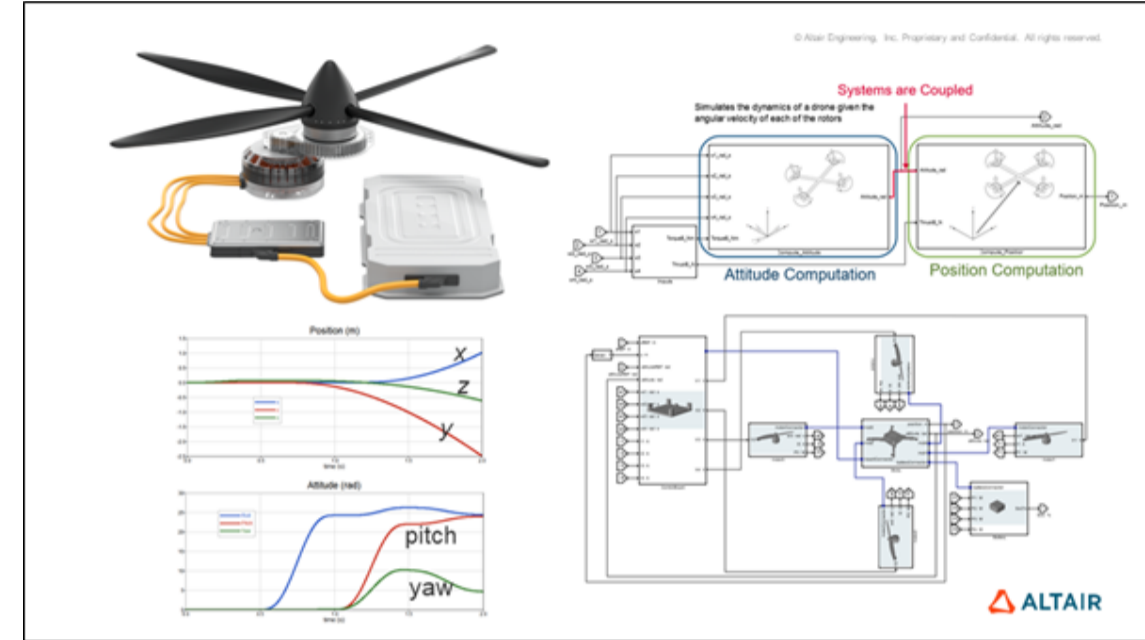
All these applications rely on a solid understanding of the underlying physics, and therefore are greatly assisted by an improved ability to simulate and visualise the physics behind drones.

The important element that controls and optimises these physics to give the drone its best performance is **Control Systems Modeling**.

### Webinar Topic and Schedule:

#### Simulation-Technology: From Equations to Complex 3D Models for Control Design

Dec 8, 2021 | 3PM MYT (Duration : 1 hour)



Join this webinar to understand the fundamentals of Control Systems Modeling before you embark on your journey of drone design.

Topics covered:

- Basic system dynamics
- Time / frequency domain
- Transfer function / state space
- 3D modelling (multi-body dynamics)
- Classical control design
- Control design and co-simulation
- Outlook of Reduced Order Models utilising AI



### Speaker



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