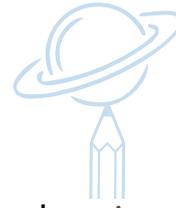


MYSAT-1

MYSAT-1 is a nanosatellite developed as a comprehensive educational tool, ideal for hands-on training in space engineering across various educational levels. Potential users include secondary schools focused on building skills, university engineering programs, and even professional engineering firms. This realistic satellite kit on AirB-1 for zero-gravity simulation, provides a broad array of educational activities, making it versatile for all learners interested in space & satellite technology, especially CUBSATs.

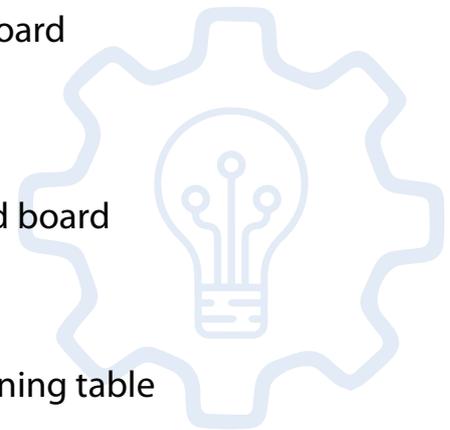
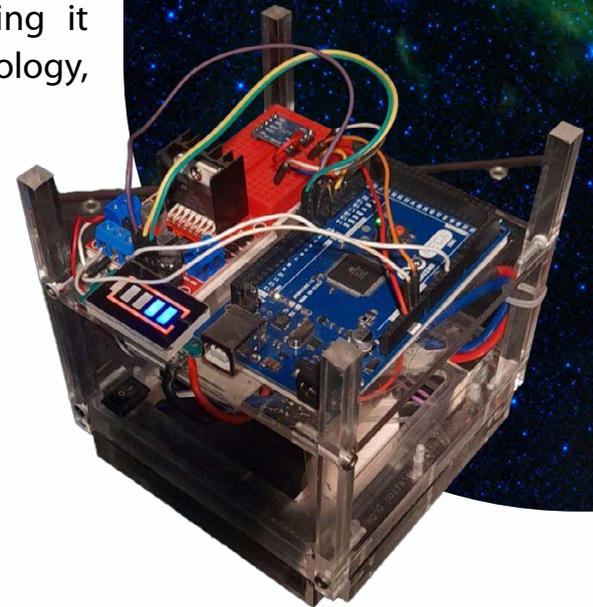


Subsystems

- Electrical power
- Space grade solar cells
- Onboard Computer
- Sun simulator
- Magnetic field simulator
- Reaction wheel
- Command and data handling from/to computer
- Camera payload with wireless data link
- Zero Gravity simulator turning table
- Electronic circuit assembly on bread board

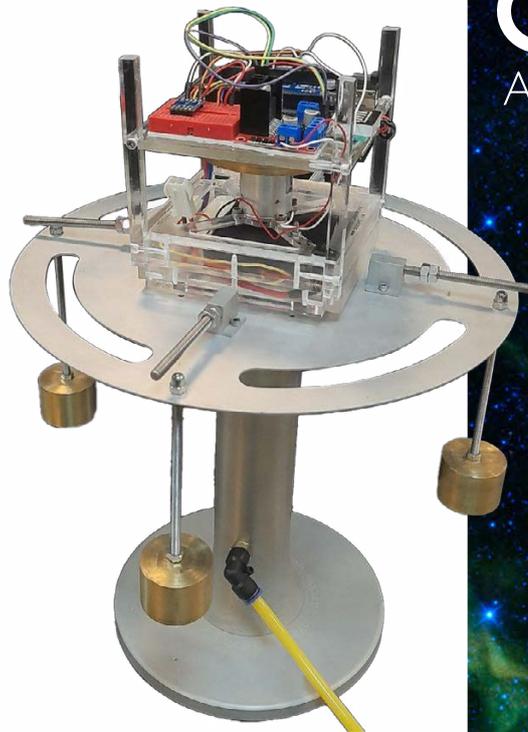
Skills

- Assembly of electronic circuit on bread board
- Measurement of solar cells output
- Assembly of Satellite structures
- Setting up CUBSAT on Zero gravity turning table
- Command & Data handling



Topics

- Zero Gravity Space environment
- LEO, GEO & Satellite categories
- CubSat standards
- Satellites power management
- Satellites control systems
- Thermal Management
- Wireless communication
- Telemetry
- Onboard Data handling
- Earth observations



System requirements

PC/Laptop simulating ground station for commands & data handling requires only Windows® OS 7, 8 or 10 & USB Type-A to Mini-B cable (included) On Linux and Mac OS X.

Flight software

Flight software

MYSAT-1 comes with preloaded flight demonstration software to showcase its functionality once assembled. Users can modify and track changes, enabling an interactive and practical learning experience in programming.

A Ground station client for Windows PC/ laptops is provided, allowing access to ground station software on devices that can read the COM serial port through a USB connection.

The Next Generation Program

CAVU Aerospace UK follows The Next Generation Program and hosts aviation & space courses in Stirling University as part of community engagement & social responsibility. This helps to prepare Scottish students for hundreds of space jobs in the next decade when Scotland operates quite a few space ports!

For latest schedule of educational program, reach out to:

Info@CavuAerospace.uk

This is how our courses looks like:

<https://youtu.be/fh2P7MrA6DI>

 Sales@CavuAerospace.UK