

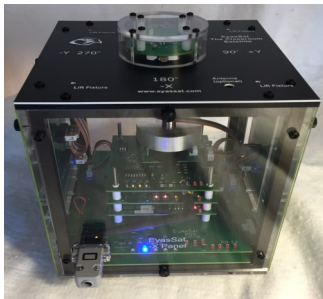


## RISK AVERSE? NEED PRACTICAL EXPERIENCE?

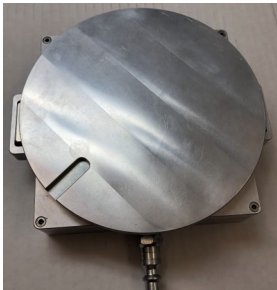
**EYASSAT Spacecraft Simulator Systems**

**Hardware, Command & Control, Real Data**

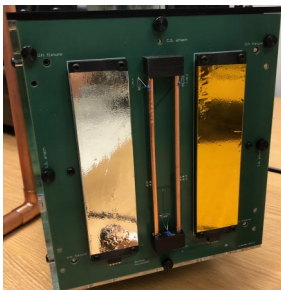
**Low Risk, Low Cost, Hands-On**



**Traditional EyasSat**  
**\$11,500 USD**  
GEN 5X Nanosatellite Kit



**Single Axis Air Bearing**  
10-15 PSI = Frictionless Attitude Control  
Available **NOW \$1199 USD**



**Advanced Thermal Studies Kit**  
4 Interchangeable, Thermal Surfaces, with varying emissivities and absorptivities.  
**NOW INCLUDED IN STANDARD KIT!**

## Contact Us

[www.EyasSat.com](http://www.EyasSat.com)  
[Facebook.com/EyasSat](https://Facebook.com/EyasSat)

[gburditt@EyasSat.com](mailto:gburditt@EyasSat.com)  
+1 (303) 902-3196

## APPLICATIONS AND CASE STUDIES:

- ⇒ Design Requirements & Constraints for Launch and Space Environments
- ⇒ Systems Engineering Principles
- ⇒ Verification & Validation
- ⇒ Altitude Control Studies with two types of actuators
- ⇒ Thermal Studies, moving energy throughout a system
- ⇒ Direct Energy Transfer
- ⇒ Ground Control with COSMOS Command & Control
- ⇒ Data Analysis
- ⇒ System Vulnerabilities & Trouble-shooting
- ⇒ Software & Payload Development (E3C only, see reverse)

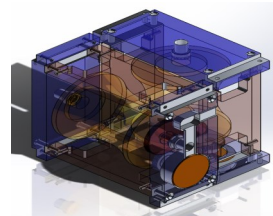


## COMING SOON: E3C PRODUCT LINE

Functional Capability	GEN 5 , Nanosatellite	E3C , 3U Cubesat
Power System Study (with various solar cell configurations)	X	X
Option of PPT system		X
Thermal Studies (radiative and convective)	X	Optional Upgrade
Single Axis Attitude Control	X	X
3-Axis Attitude Control		Optional Upgrade
Wheel Actuator(s)	X	X
Magnetorquer Actuators	X	
Control Algorithm Development using Matlab Simulink and/or Code Upload Capability		Optional Upgrade
Subsystem Level Testing	X	X
Linux Based RTOS		X
Packetized Data System		X
On board Data Storage		X
Hands-on Assembly & Disassembly	X	X
COSMOS Ground System	X	X
Redundant Power System		X
On-Board Limit Checking		X
Air Bearing Test Bed	Optional Upgrade	Optional Upgrade

### UPGRADE OPTIONS:

- ⇒ Advanced Thermal Studies Kit
- ⇒ Center of Gravity Transducer Board
- ⇒ Extra Solar Array
- ⇒ 3-axis Control (E3C only)
- ⇒ Software License (E3C only)
- ⇒ Single Axis Air Bearing. *3DoF coming soon...*



X-Y Axis Plug & Play Assembly  
Upgrade Option for E3C

## OUR WORLDWIDE CLIENTS INCLUDE:

- ⇒ SCHRIEVER AFB
- ⇒ VANDENBERG AFB
- ⇒ USAFA
- ⇒ JOHNS HOPKINS UNIVERSITY AND APPLIED PHYSICS LABORATORY
- ⇒ CAL POLY, POMONA
- ⇒ CARLETON UNIVERSITY, CANADA
- ⇒ INSTITUTE OF SPACE SYSTEMS AT TU BRAUNSCHEIG
- ⇒ HERZLIYA SCIENCE CENTER, ISRAEL
- ⇒ UNIVERSITY OF TURKISH AERONAUTICAL ASSOCIATION
- ⇒ ASCENTIO TECHNOLOGIES, ARGENTINA
- ⇒ SERVOCONTROLS, INDIA
- ⇒ TEACHING SCIENCE AND TECHNOLOGY, INC.
- ⇒ ANDDY HIGH SCHOOL, NORWAY