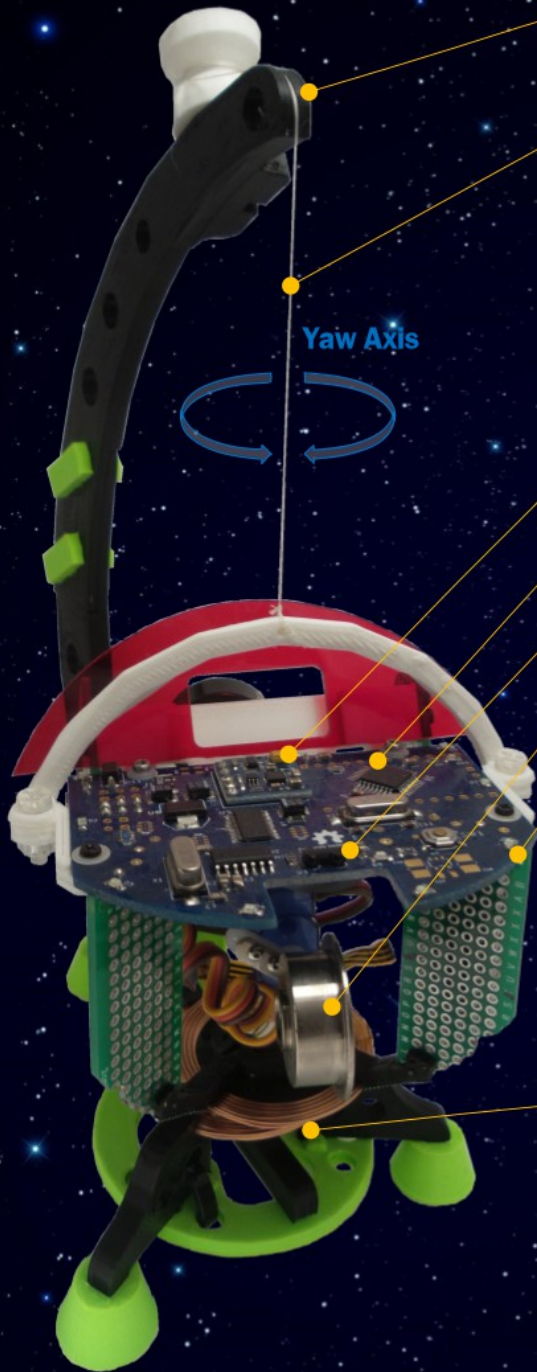


# Cosmoneer Proto



## Environment

- **Open Zero G Simulator – Hanger**  
Environmental framework simulates Zero G while providing wireless power input.
- **Gravity Arrestor – Suspension Cord & Adjuster**  
User adjustable cord for maintaining Zero G, providing a near frictionless Z-Axis for Yaw Axis attitude maneuvering.

## Systems

- **Programming Port – FTDI (not visible)**  
Arduino compatible FTDI serial programming port.
- **Orientation Sensor - Compass**  
Used to locate headings & target positions.
- **CPU - Microcontroller**  
User programmable ATmega 328P-AU microcontroller.
- **Communications – Serial IrDA (infrared data)**  
Line-of-sight communications system.
- **Attitude Control – Control Moment Gyro**  
Used for inertial guidance instead of gas jets or fans.
- **Visual Feedback – 8 LEDs**  
User programmable visual event indicators.
- **Audio Feedback – Piezo Speaker (not visible)**  
Buzzer-like speaker capable of producing tone sequences.
- **Expansion Port – 5v I<sup>2</sup>C port (not visible)**  
Intended for use with a 5V OLED add-on display panel.

## Power Source

- **Power - Inductive Power Coils**  
Wirelessly sends continuous power to the Cosmoneer, supporting the near-frictionless environment.