# S/C ODIN Simulation

## Flight Control System

### Subsystems

* Control mode selector
* Control law
* State estimator

### Current state:

### To do:

## Environment

### Subsystems

* Sun position
* Magnetic field

### Current state:

### To do:

## Disturbances

### Subsystems

* Atmospheric drag
* Magnetic field
* Solar pressure
* Gravity gradient

### Current state:

### To do:

## Actuators

### Subsystems

* Reaction wheels
* Magnetorquers

### Current state:

### To do:

## Spacecraft Dynamics and Kinematics

### Subsystems

* Dynamics
* Kinematics

### Current state:

### To do:

## Sensors

### Subsystems

* Sun sensor
* Magnetometer

### Current state:

### To do: