

Move Tutorial













MOVE THE SATELLITE















 Objective: Move the satellite from its starting position to (0.5, 0.2, -0.3)















Inputs/Outputs

- loop provides:
 - myState[12]
 - time
- Position Control
 - api.setPositionTarget
 - api.setVelocityTarget
 - api.setForces

Plan

- 1. What is the simplest way to do this?
- 2. Do we need a sketch and math model?













- Use position control with api.setPositionTarget
- No model is needed since we can directly command position.















```
//Make an array to hold our end position
float endPosition[3] = {0.5,0.2,-0.3};
```

```
//Make an array to hold our Target position
float posTarget[3];
int i;
```

```
//Set the target to the end position
for (i=0; i<3; i++)
{
        posTarget[i] = endPosition[i];
}
api.setPositionTarget(posTarget);</pre>
```













MOVE NEAR THE OTHER SATELLITE



- Move near to the other satellite (within 0.45 m) without colliding
- Move in a circle around the satellite









