

Desktop Setup

Cockpit View

Throttle

Each PCB contains circuits and a microcontroller to process and send signals to the Prepar3D simulator.

Joystick deflection angle: Throttle travel: **RPS** Weight: Throttle & Stick Weight: Force to deflect joystick: Force to move throttle: Force to move RPS: Engine propulsion Latency: Cost:



### **Rudder Pedal System (RPS)**

The pedals slide along two rails and have toebrakes. The assembly has 3 rotary sensors.



Assembled Rudder Pedal System

## **Custom Printed Circuit Board**



Assembled Printed Circuit Board

# Validation

#### Target

13° 6 in <35 lbs <35 lbs <7.5 lbf <7.5 lbf <15 lbf <350 ms <\$2000

### **Testing Data**

13.6° 6.06 in 25 lbs 12.6 lbs 1.3 lbf 1.5 lbf 11.2 lbf 180 ms \$1987.53