**Horizontal Axis (Thrust/Drag):**

|  |  |
| --- | --- |
|  | Horizontal position |
|  | Airspeed |
|  | Horizontal velocity |
|  | Horizontal acceleration |
|  | Throttle force scalar |
|  | Throttle input (0 to 1) |
|  | Drag force scalar |

**Vertical Axis (Lift/Gravity)**:

|  |  |
| --- | --- |
|  | Vertical position (altitude) |
|  | Vertical velocity (velocity) |
|  | Vertical acceleration |
|  | Lift function (scalar) |
|  | Mass |
|  | Gravity |

**Pitch Rotational Axis:**

|  |  |
| --- | --- |
|  | Angle of attack (same as pitch angle) |
|  | Elevator input (-1 to 1) |
|  | Elevator force scalar |
|  | Angular velocity |
|  | Angular acceleration |