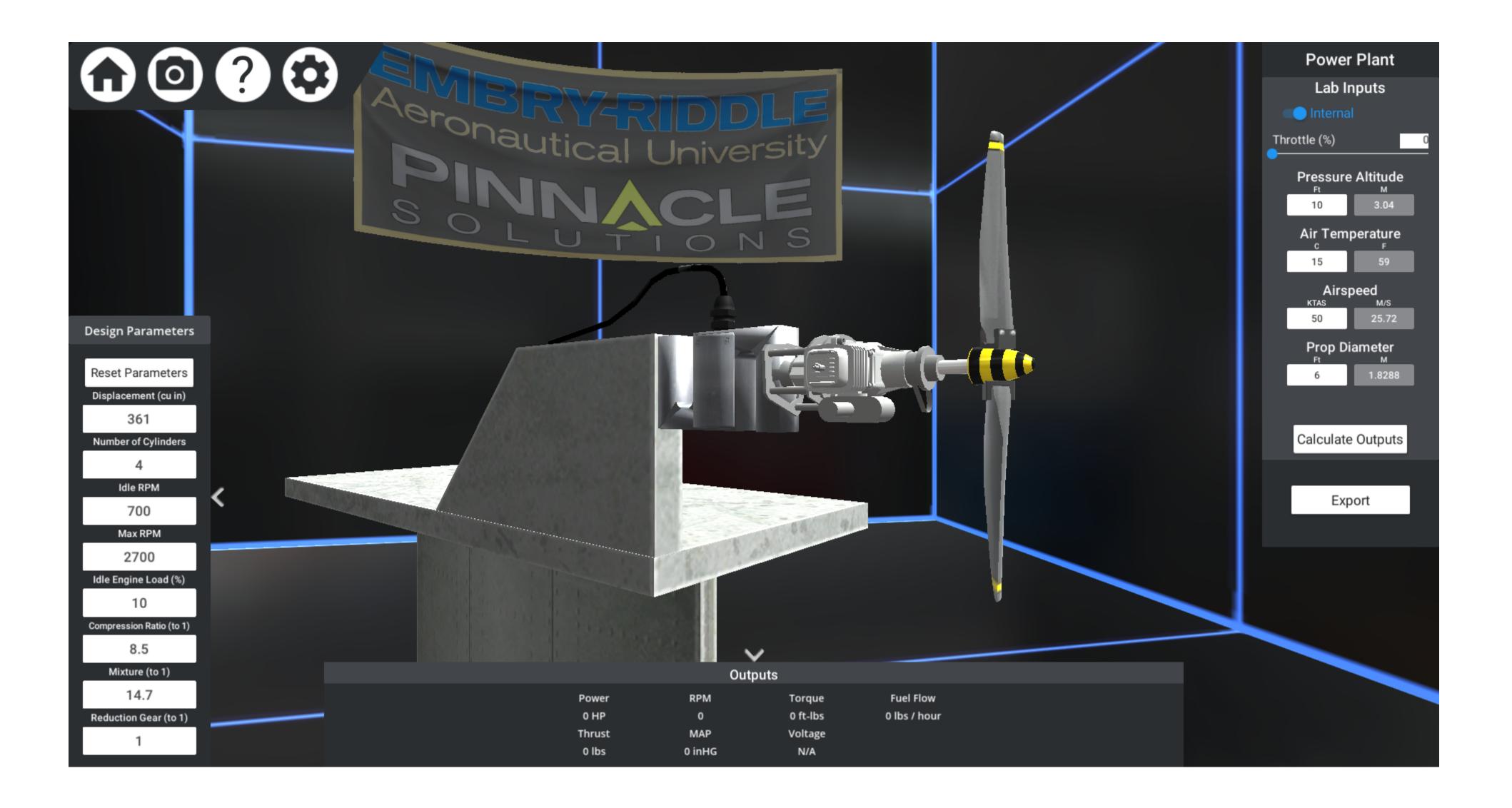
## n-Depth Power Plant Lab

**ERAU** Virtual Hub



Recommended for all users

After downloading the lab, click the settings button at the top left corner.



Next under the application tab click the "Download All Labs" button. This will eliminate the requirement to be connected to the Internet.

Audio			
Quality	Reset Application (Deletes All Data & Exits App!)		
Application	Download All Labs		
Orbit	Allow Internet		
	Version		

## Entering the Power Plant Lab

**ERAU** Virtual Hub

Welcome to the ERAU Virtual Hub

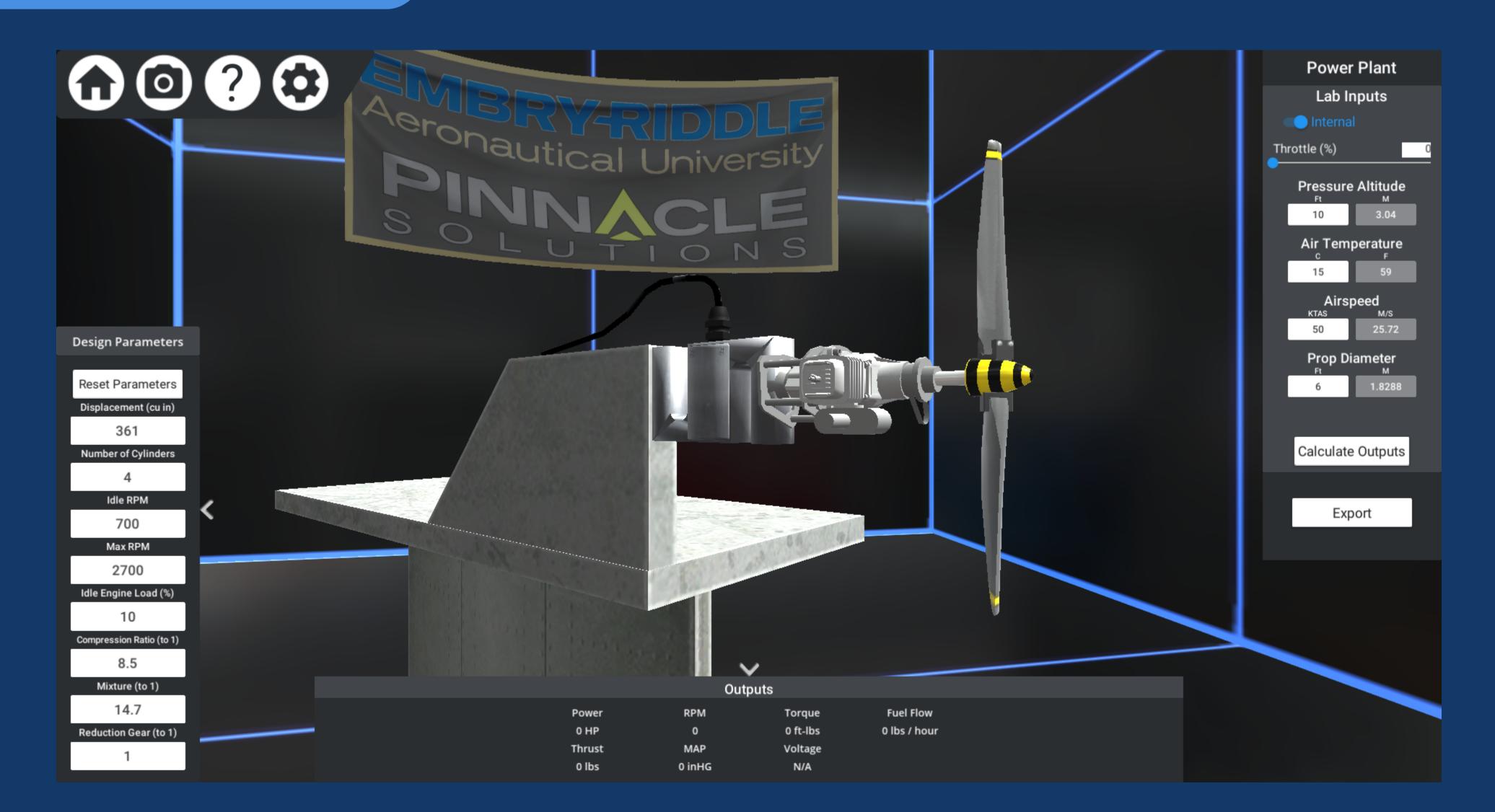
Once you step through the Crash Lab doors, you will be able to explore, discover, and learn all about the investigation process in a plane crash scenario.

To enter any door, select the





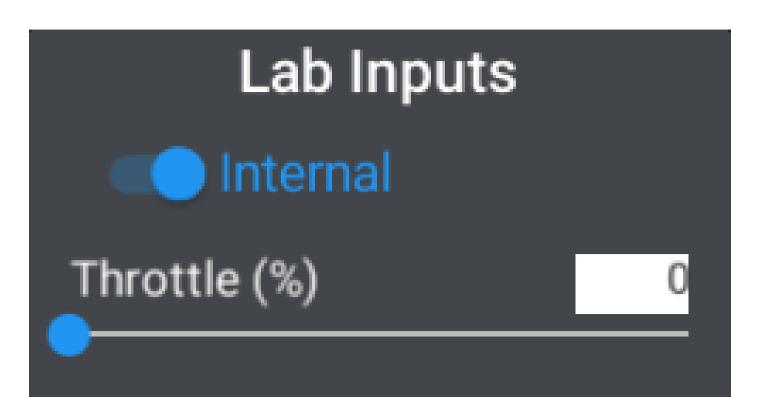
Enter the Lab

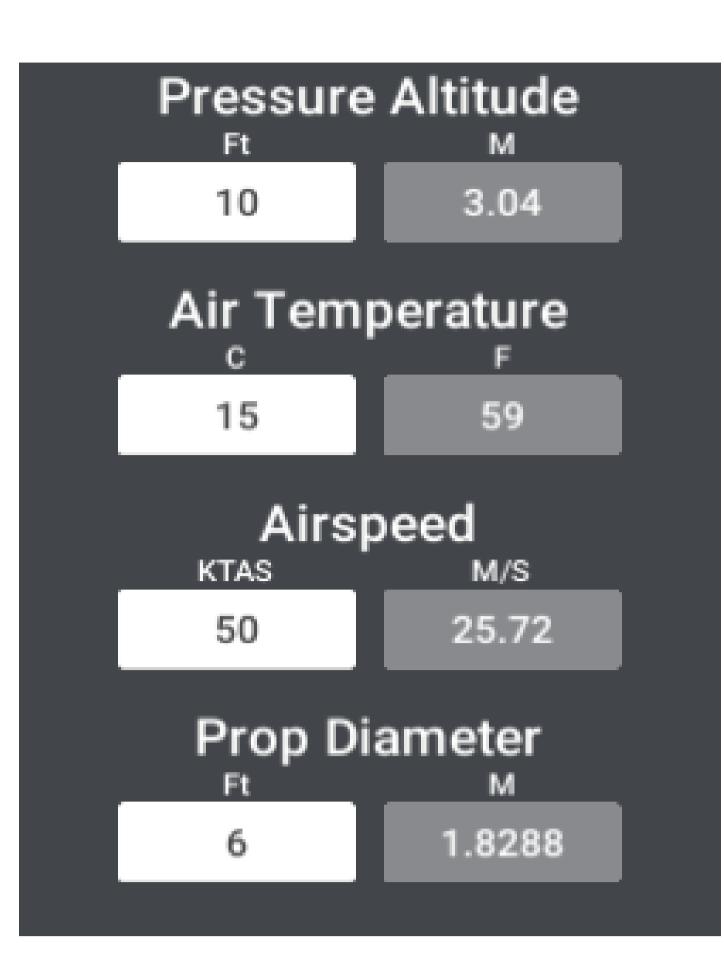


When you reach the power plant lab room, you will see several icons on the top left. These icons are input controls for the power plant. On the bottom left side you will see the design parameters which change the design options of the power plant.

## **Power Plant Input Panel**

On the right side of the screen, you will find the controls for the power plant lab.





**Engine Type**: Using the switch swaps the engines between the Electric Motor and Internal Motor.

**Throttle**: Increases the RPM of the engine by percent input.

**Flight Parameters**: This panel allows the user to change characteristics of the flight. Click to change characteristics.



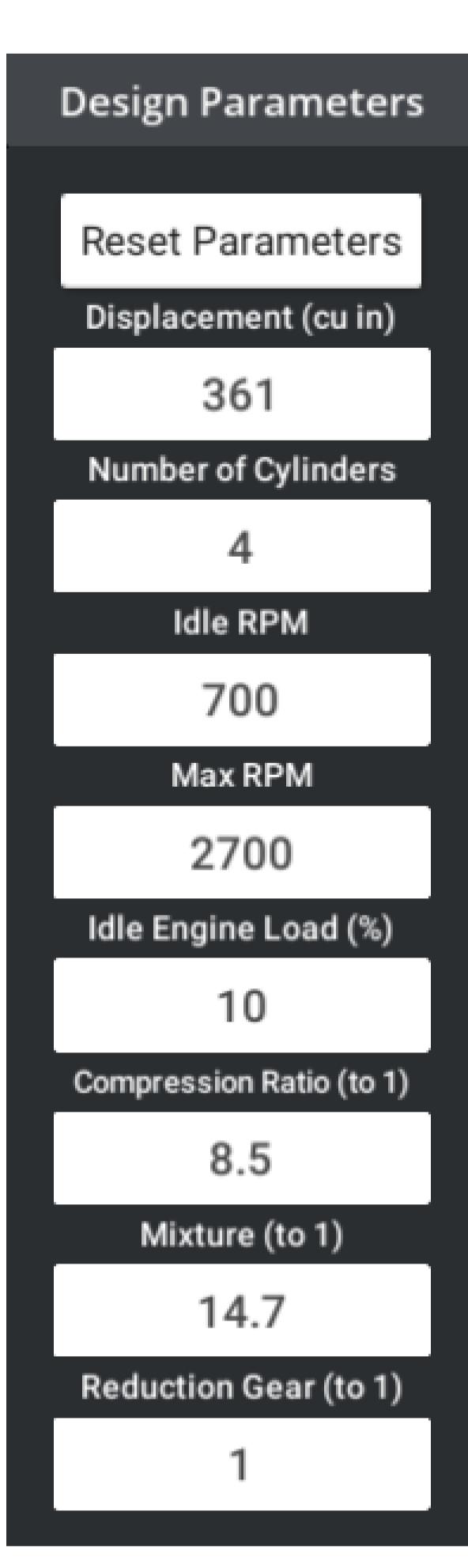
Export

**Calculate Outputs**: Once the Lab Inputs and Flight Parameters are set you will click calculate outputs to start the engine.

**Export**: Use this button to export your data to a .csv file.

Outputs					
Power	RPM	Torque	Fuel Flow		
0 HP	0	0 ft-lbs	0 lbs / hour		
Thrust	MAP	Voltage			
0 lbs	0 inHG	N/A			

**Outputs**: Show the data collected during the lab.



**Design Parameters**: Design parameters located on the bottom left side of the screen allow you to change certain aspects of the engine design. Design parameters can be changed by clicking on them.

