**INCOMPLETE**

**PROJECT NAME: CAFÉ LUNA**

**SPACEAPP CHALLENGE: DEPLOYABLE GREENHOUSE**

**ENVIRONMENT: THE MOON**

**By Nick Providakis**

**Objective:**

The purpose of this project is to create a conceptual design of greenhouse that can be deployed to the moon ahead of an astronaut mission in order to grow food for human consumption.

**Abstract:**

Cylindrical module, flat on the top, conical on the bottom, delivered as a payload stage of a rocket launch device, consisting of:

1. Inner and Outer shell
2. Concentric lens with UV shield at the top, concave focusing toward the bottom
3. Glass shield on the bottom
4. Multiple aeroponic arrays along the inner sides for growing crops
5. Multiple florescent lighting panels along the inner sides, alternating with the above aeroponic arrays