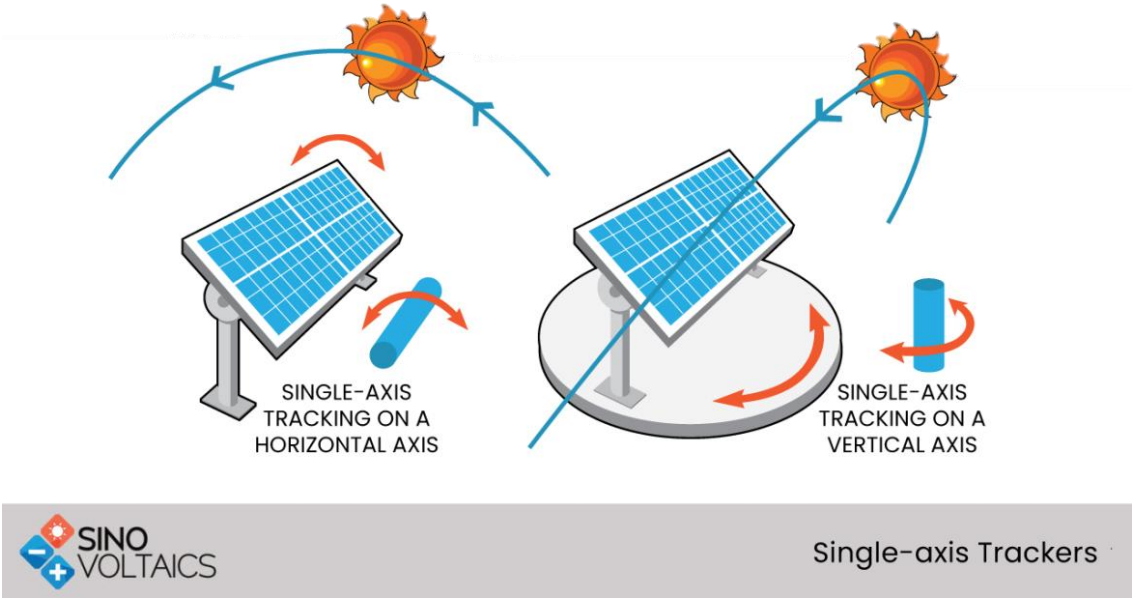
Tracking Solar Panel System

- The tracking solar panel project aims to be able to follow a light source's movement in a **single axis** maintaining a 90º incidence angle and therefore maximising the efficiency of the panel.

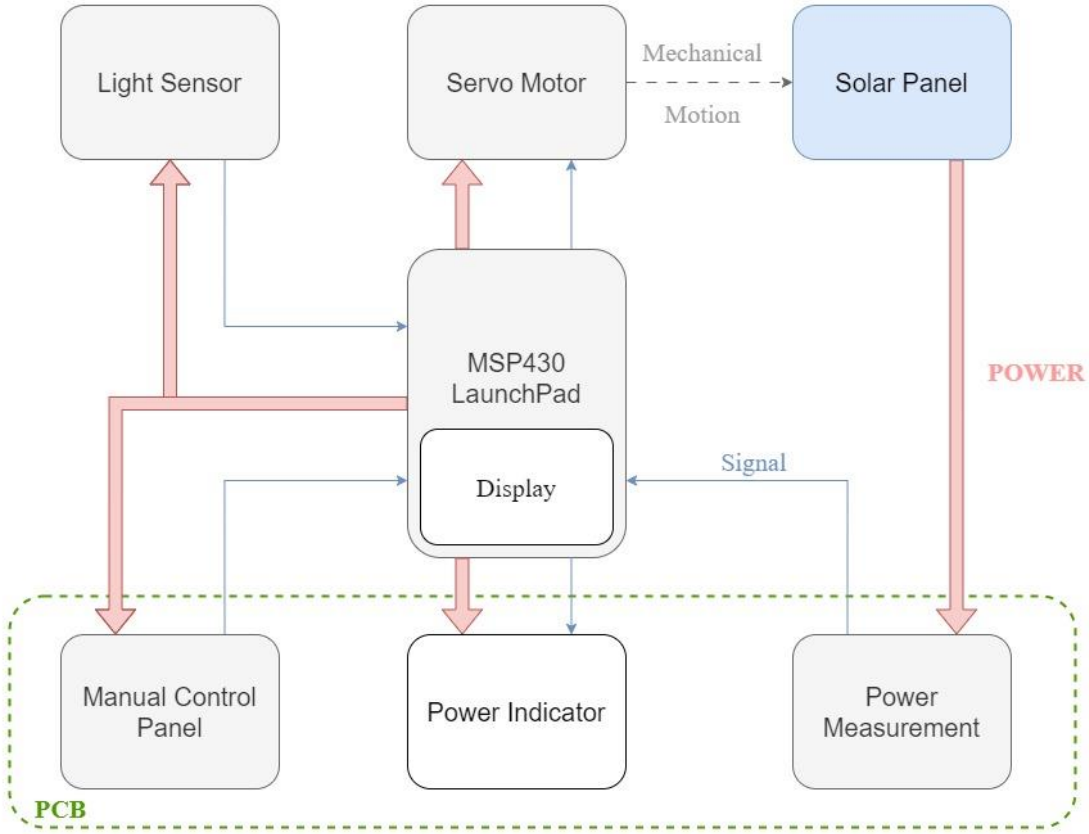
- The user would interact with the demo in many ways.

- The main aim of this project is to teach how the efficiency varies depending on the **configuration** that the solar panel is working on.



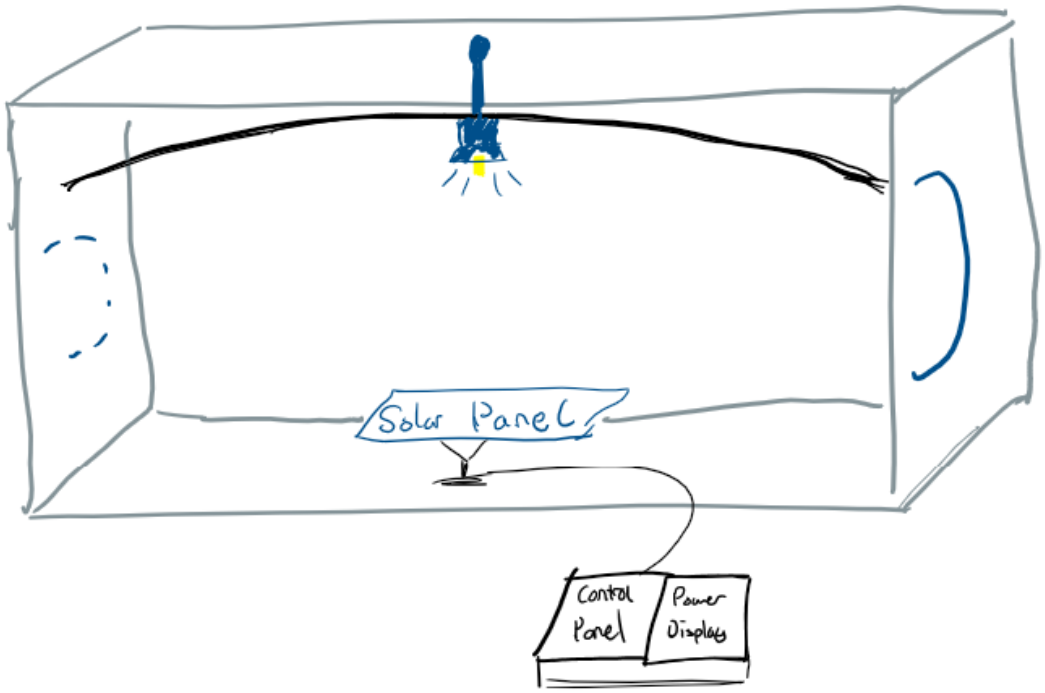
Technical Design

- A tracking solar panel (using LDR)
- Light source constrained to a single axis
- Servo motor
- Manual Control panel
- Power output information display and LED indicators



Demonstration

- User can control whether the panel is fixed, manual or tracking.
- They can move the light source on rail to also alter incident angle.
- Power output of panel displayed to user via LCD display and LEDs.



Project planning

- Gantt chart made showing time frame of important tasks
- Tasks have been distributed among group members
- Identified most important objectives, deliverables and risks.
- Initial research has been started into LDR, power measurement and solar panels.