Module 2

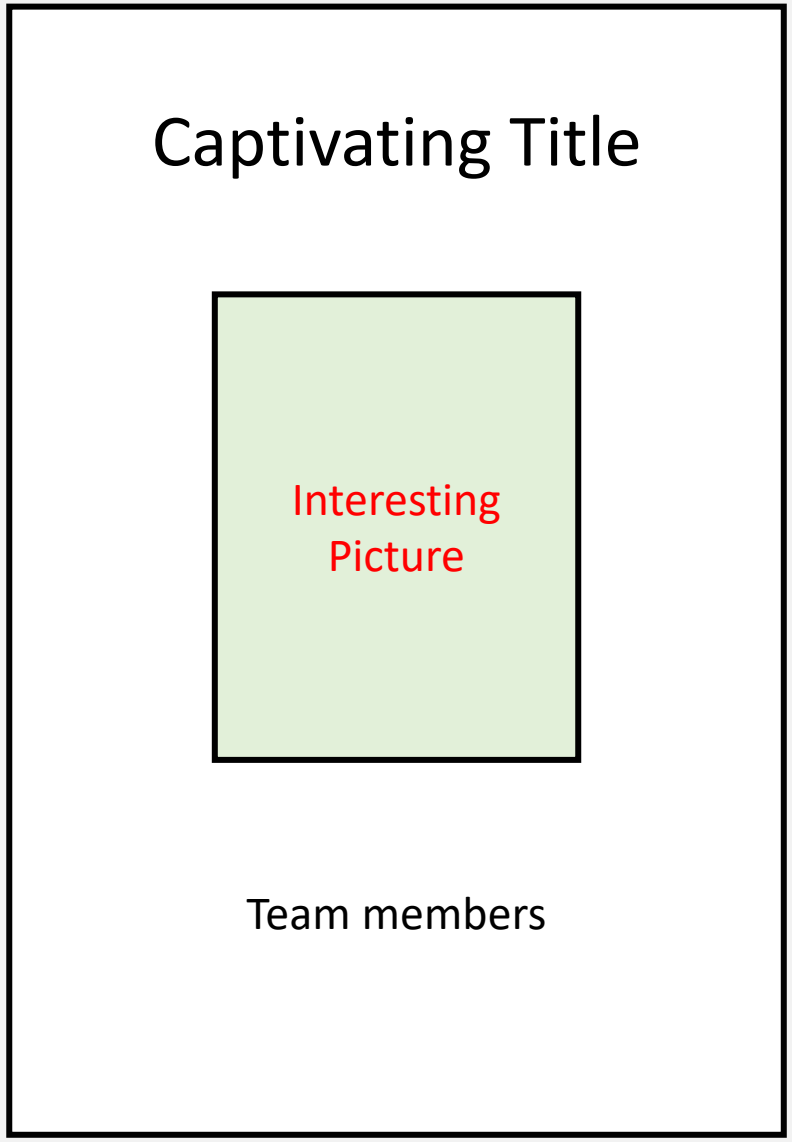
Solar tracker – Promotional booklet

Promotional booklet

- Goal: Convince investors or government department to invest in your solar tracking concept.
- Assume tracking doesn’t exist.

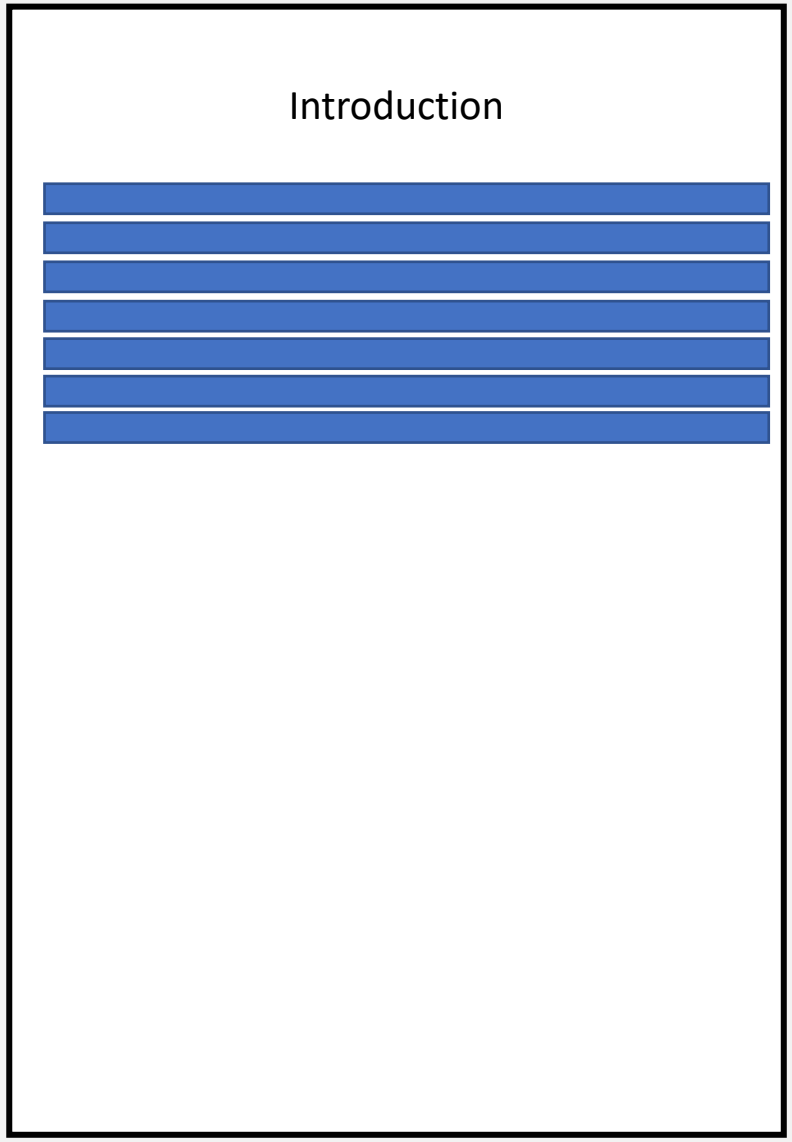
Promotional booklet

- Front page



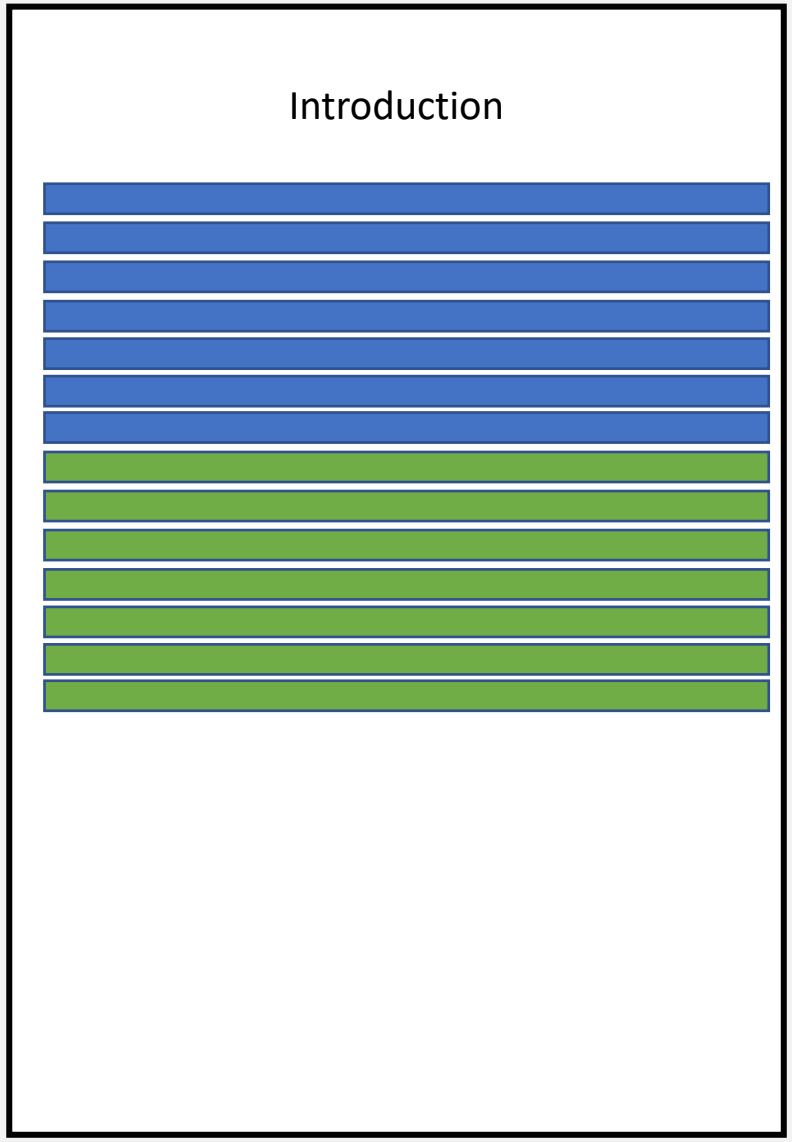
Promotional booklet

- Front page
- Introduction
  - Start wide



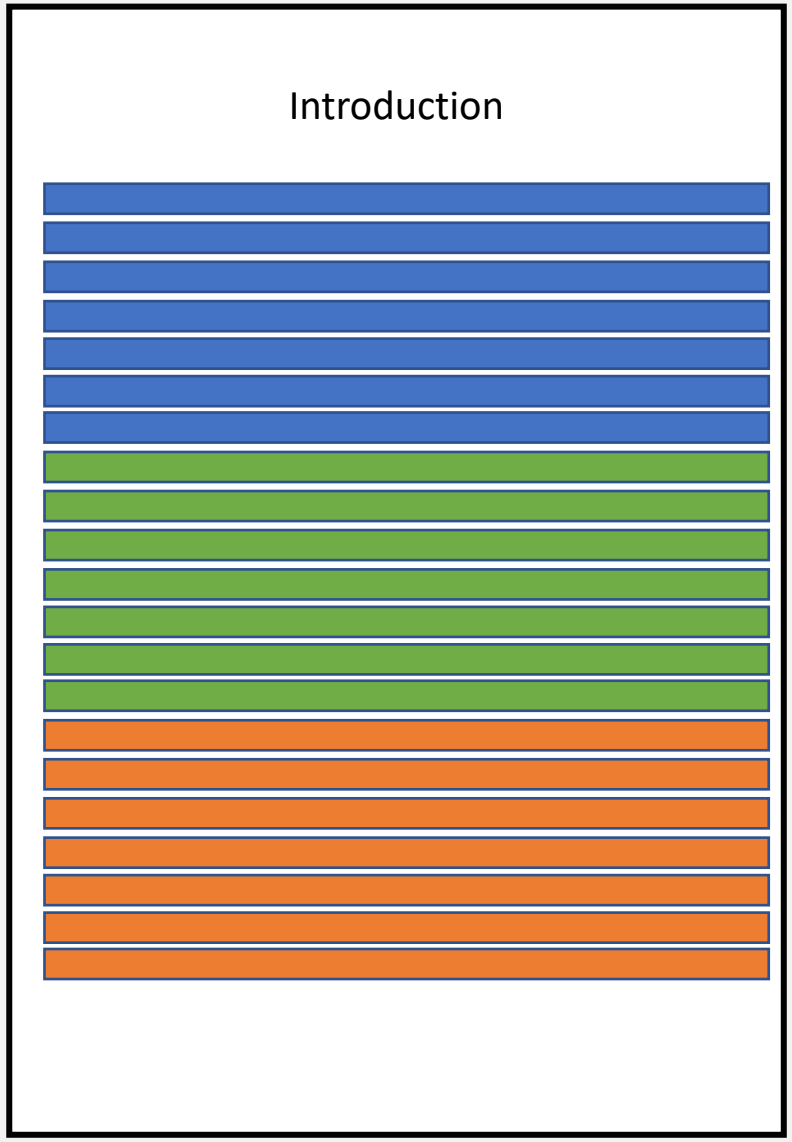
Promotional booklet

- Front page
- Introduction
  - Start wide
  - Narrow down to solar



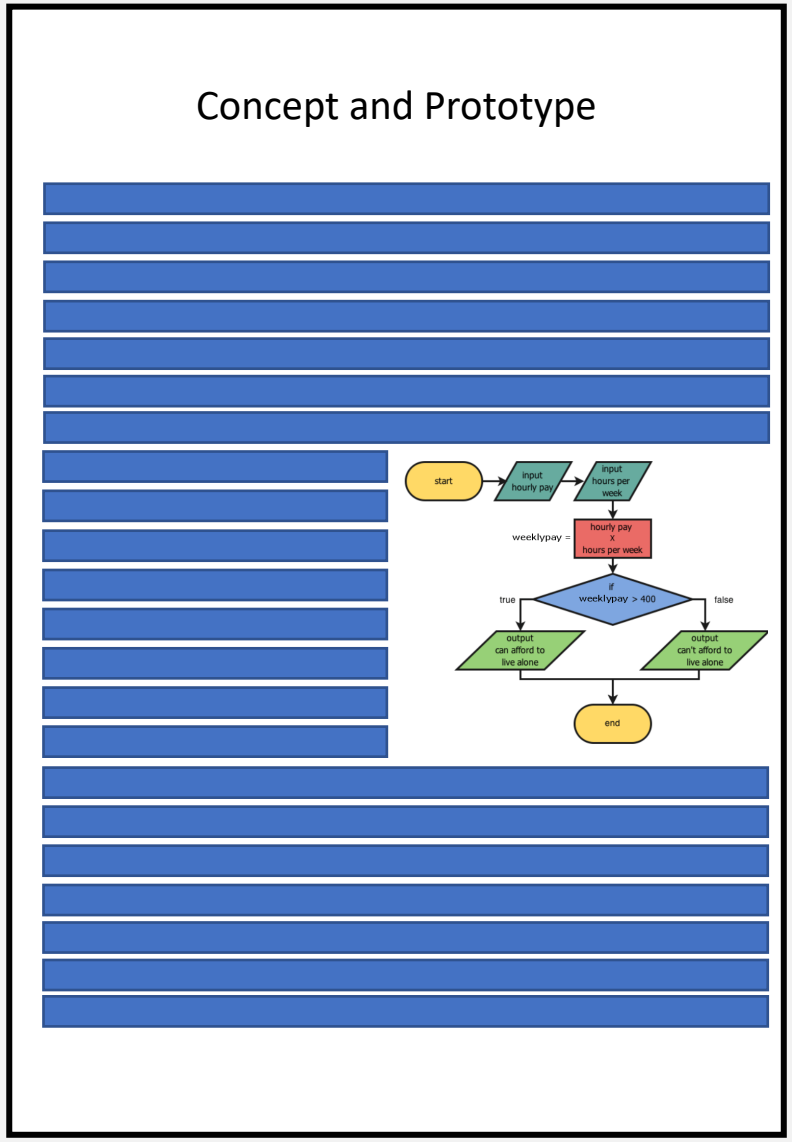
Promotional booklet

- Front page
- Introduction
  - Start wide
  - Narrow down to solar
  - High level problem statement

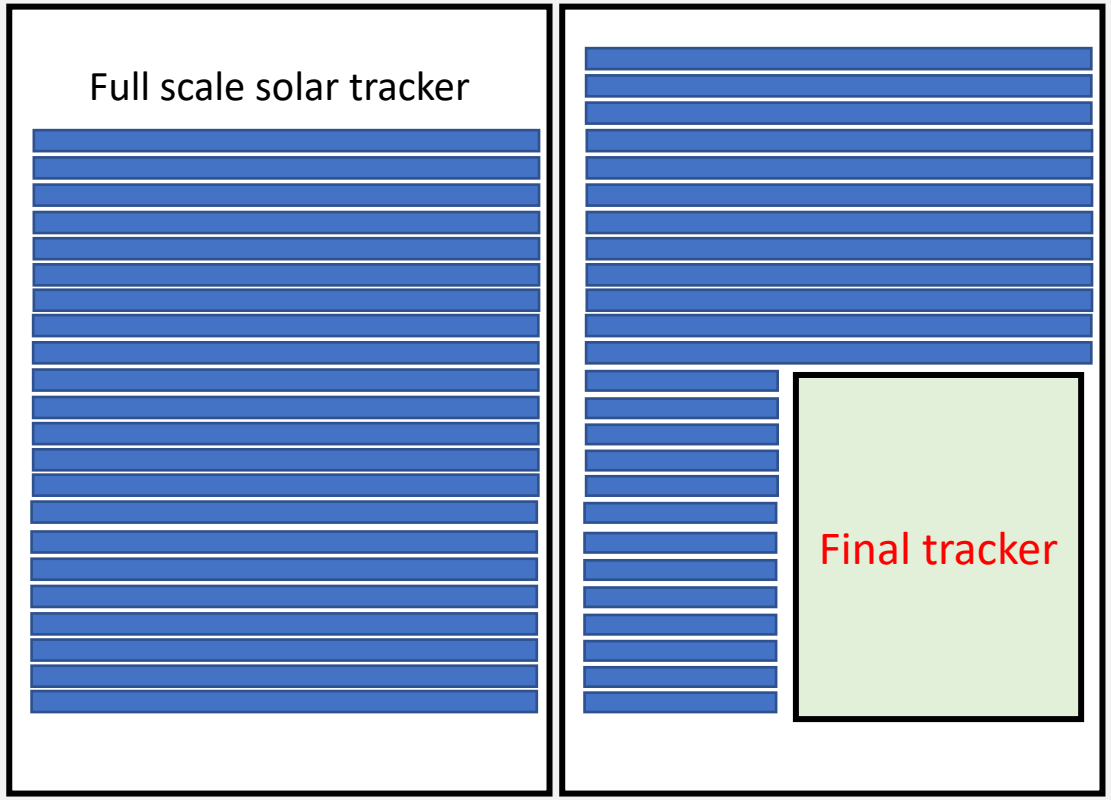


Promotional booklet

- Front page
- Introduction
- Concept and prototype
  - Easy for everyone to understand
  - Can use pseudo code or flow diagrams



Promotional booklet



- Front page
- Introduction
- Concept and prototype
- Full scale solar tracker
  - Tracker for 300W panel
  - Need to calculate energy gained and energy lost (net energy gain)
    - Calculate the energy output of the panel on the summer solstice (from module 1)
    - Single tilt is on average 70% efficient, while tracking is 100% - work out your energy gain
    - Calculate the energy used by the servo over a day
  - Needs to have a sketch/drawing of the final version

Promotional Booklet marking guide

1. Written language and references (20%):
    - Is the document easy to read and follow?
    - Are there minimal spelling and grammatical errors?
    - Are references included?
2. Layout and structure (10%): Is the document pleasant to look at and easy to follow?
3. Introduction (10%): Do you convince the reader of the need for solar?
4. Prototype description (30%):
    - How well is the concept of solar tracking explained?
    - Is the image processing described in a way the anyone could understand?
    - Does the prototype encourage the reader to invest in the concept?
5. Technical content (30%):
    - Do the calculations make sense?
    - Realistic sketch/drawing of the system
    - Rough budget