

Solar Algae Dryer

Team 1

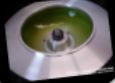


Summary

- Our problem
- Objectives
- State of the Art
- Way of operation
- Marketing plan
- Ethics and sustainability
- Sustainability
- Conclusions

Problem

Drying of algae takes too much energy



Objectives

- 10%
- 1 m²
- No toxic substances
- Protect the algae from UV radiation
- Only using solar power as a source of energy

Marketing plan

In times of worldwide air pollution
How can we produce enough
to meet the demand
for alternative fuel?

1. universities
2. energy market

Way of operation



State of the Art



Ethics and sustainability

- Ethics in engineering
- Due-care model
- IEEE code of ethics

Sustainability



Sustainability



Conclusions

- Distilling process
- Materials
- Sustainable product
- View for the future

References

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Space Flight Center / Reto Stockli

Solar Algae Dryer

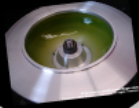
Team 1

Summary

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Problem

Drying of algae takes too much energy



Objectives

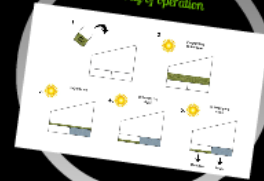
- 10%
- 1 m²
- No overheating
- Protect the algae from UV radiation
- Only using solar power as a energy source

Marketing plan

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How can we produce enough
to meet the demand
for alternative fuel?

1. universities
2. energy market

Way of operation



State of the Art



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Sven Petersen

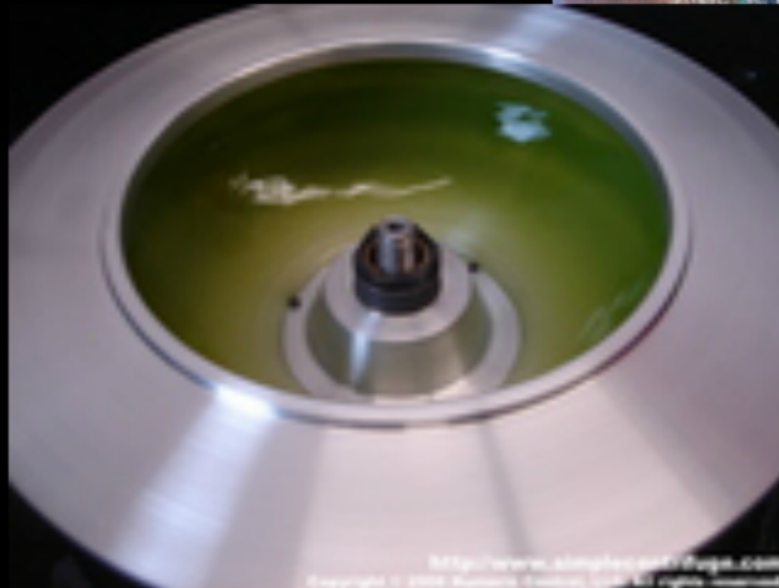


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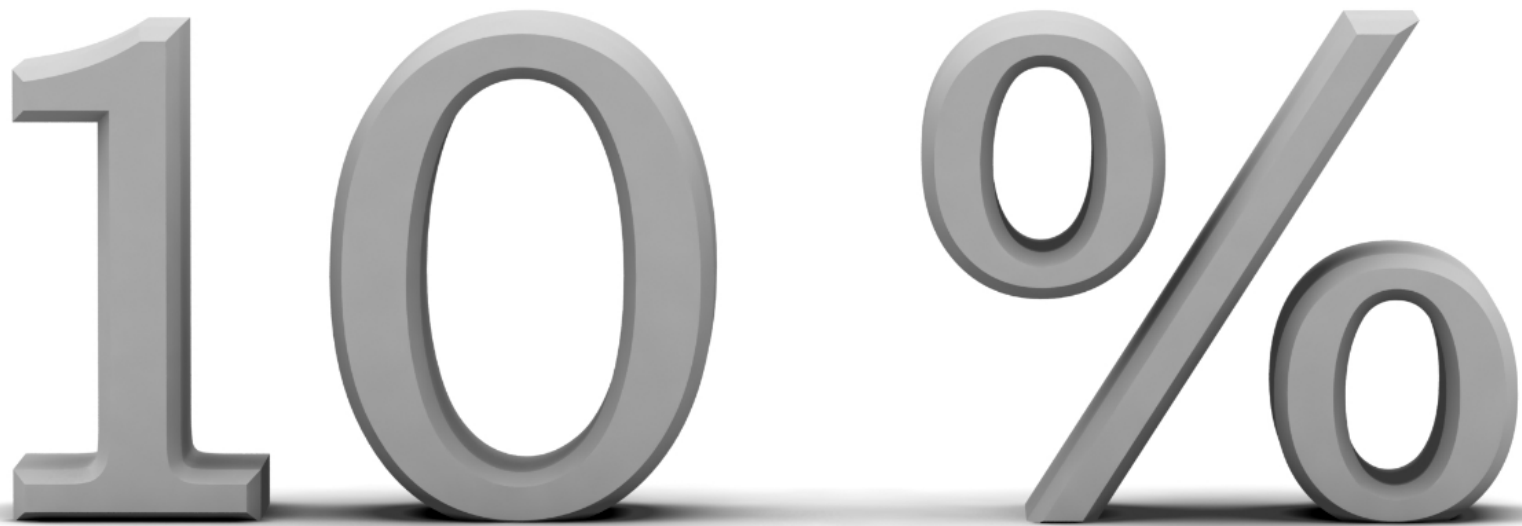
Problem

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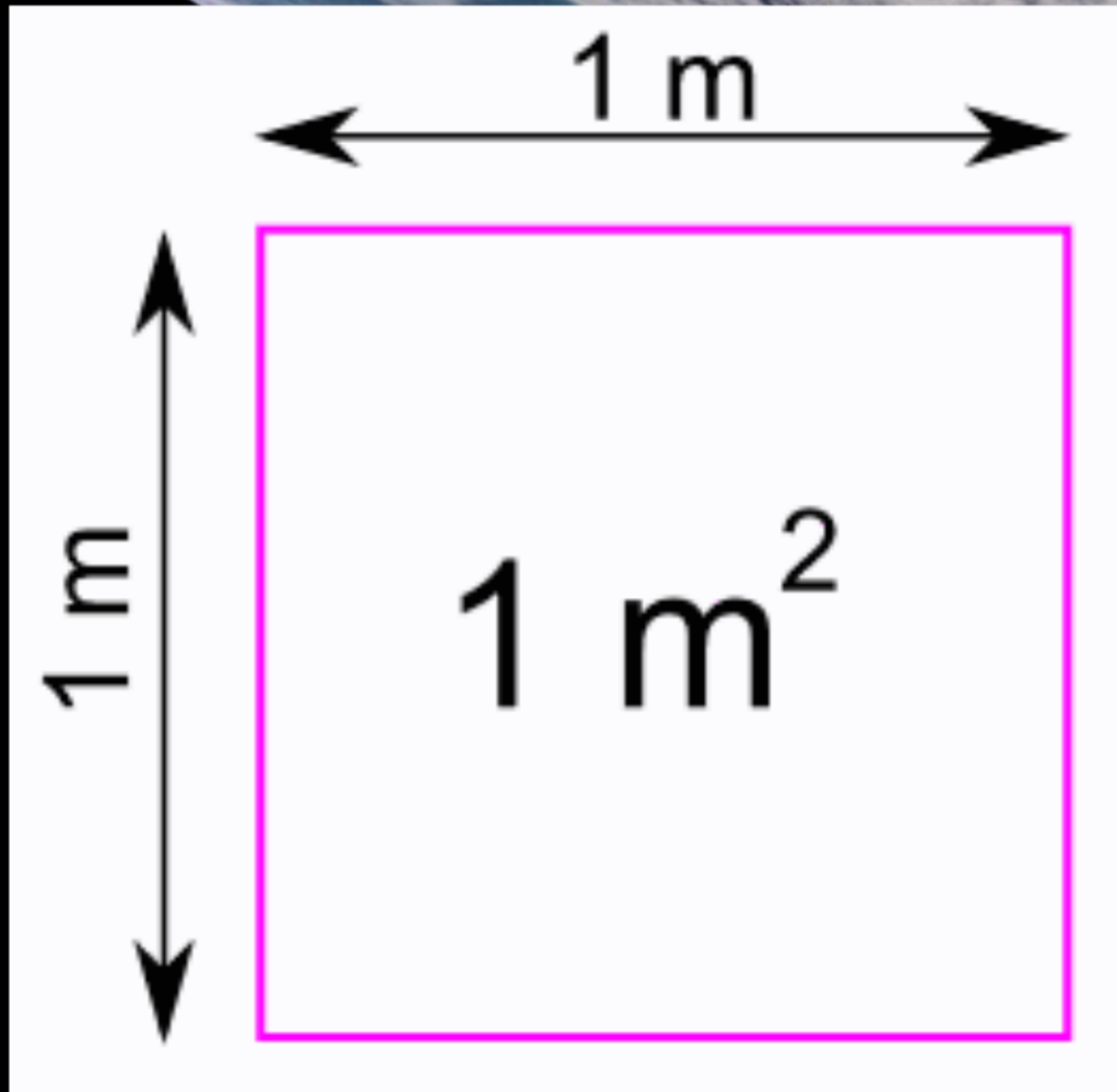


Objectives

- 10% [10 %]
- 1 m² [1 m²]
- No overheating [no fire icon]
- Protect the algae from UV radiation [sun icon]
- Only using solar power as a energy source [solar panels icon]



10%

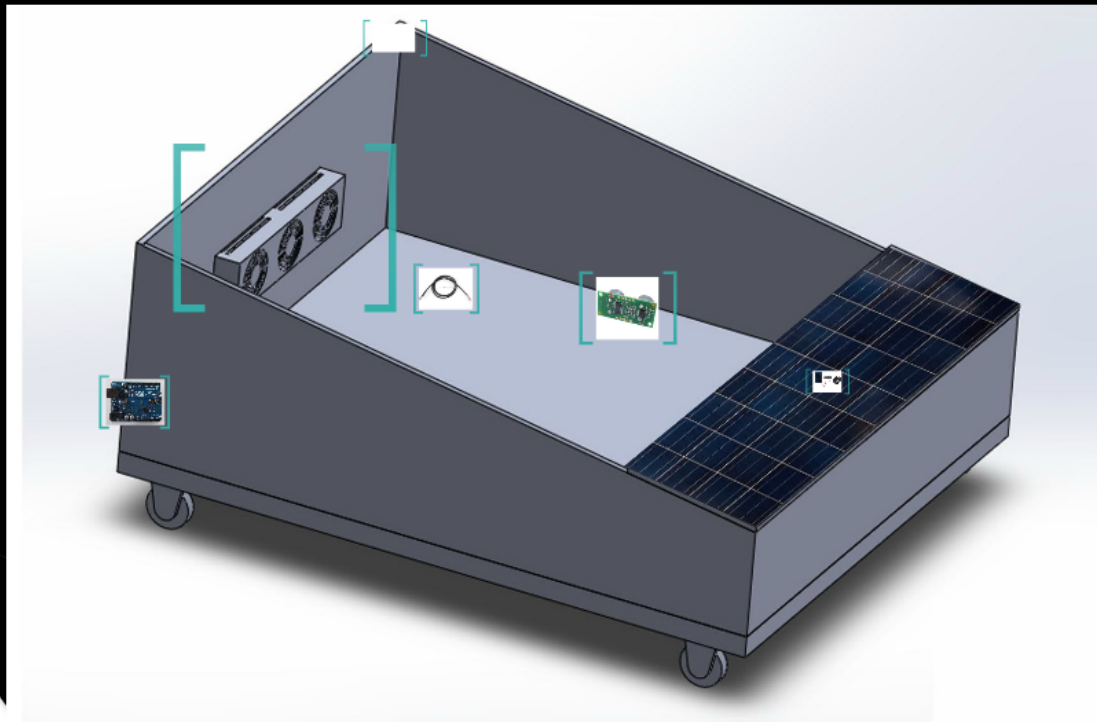


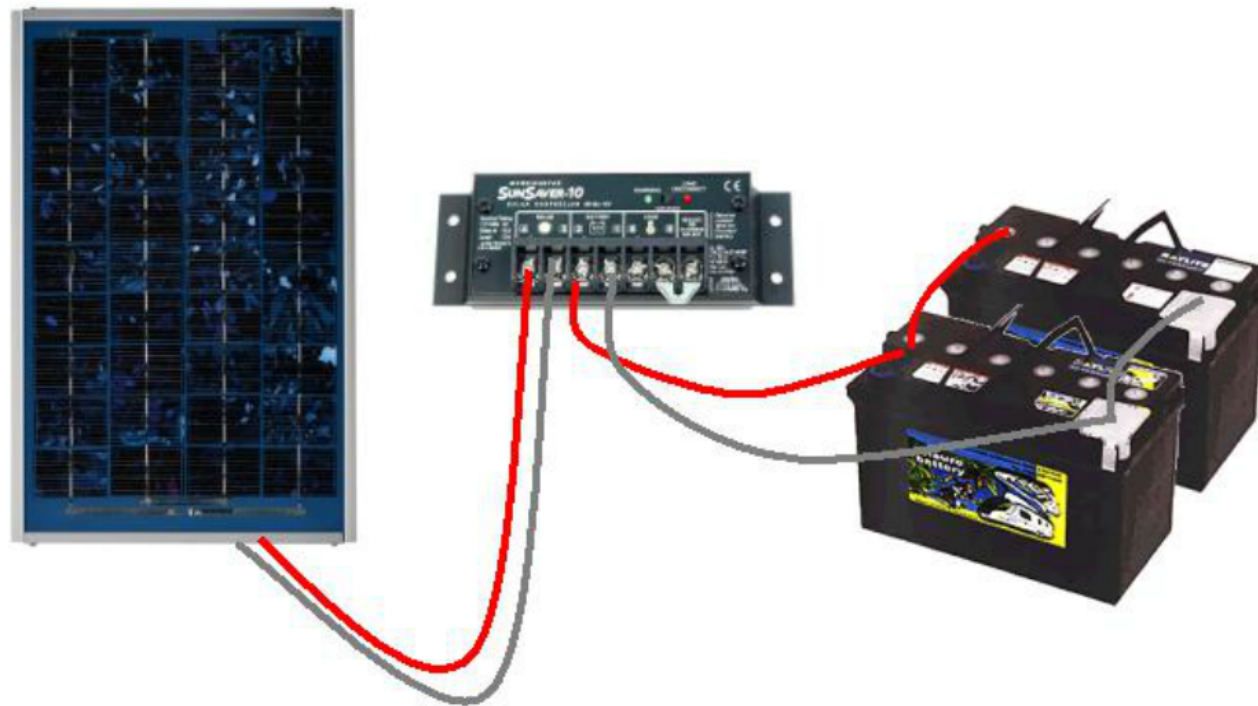




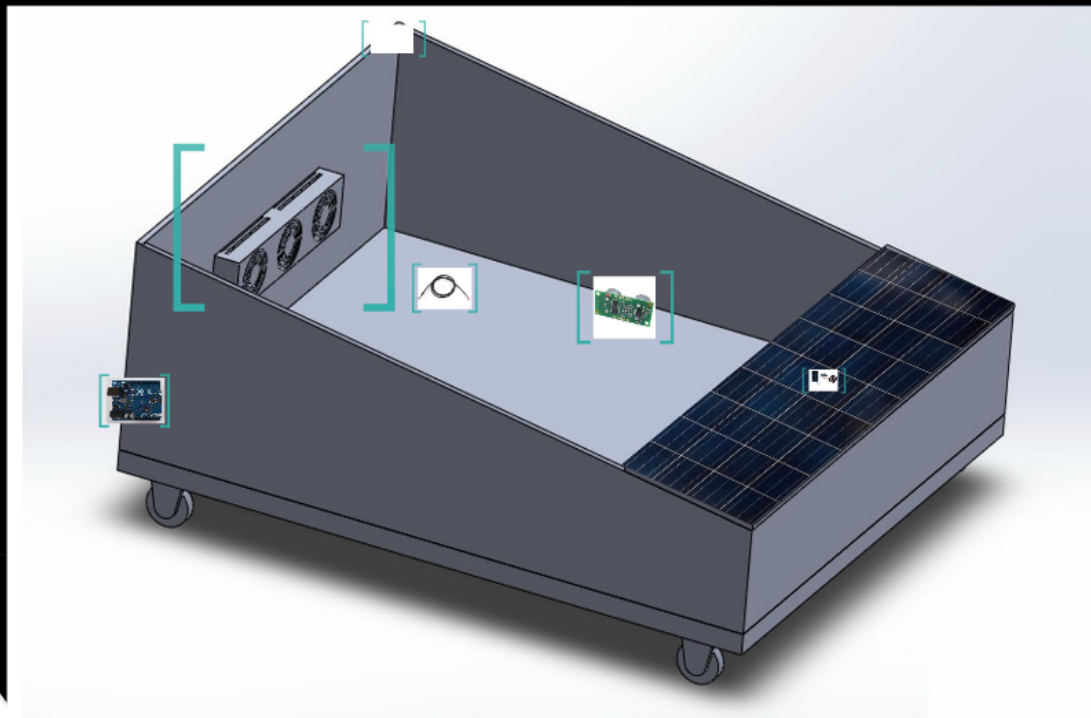


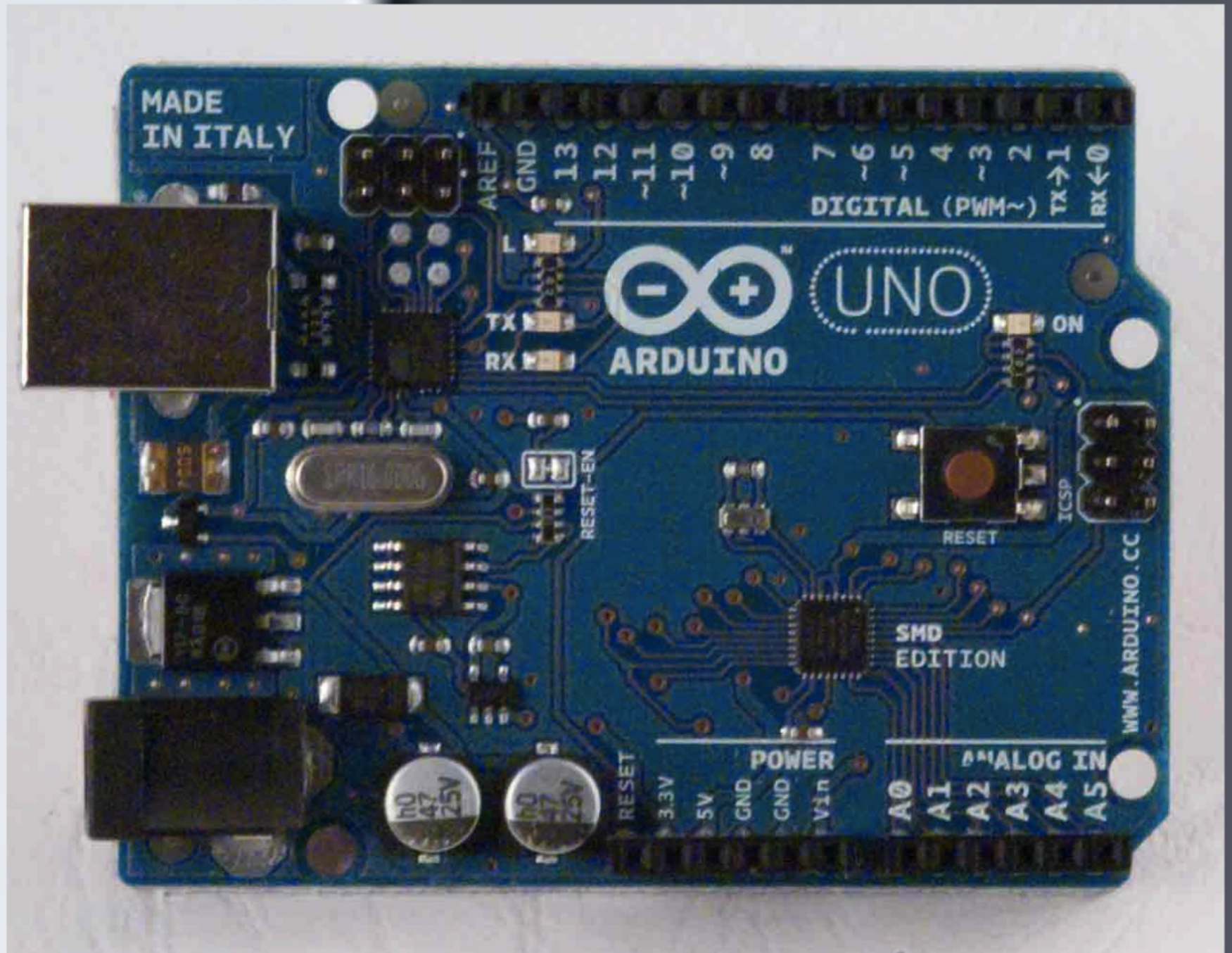
State of the Art



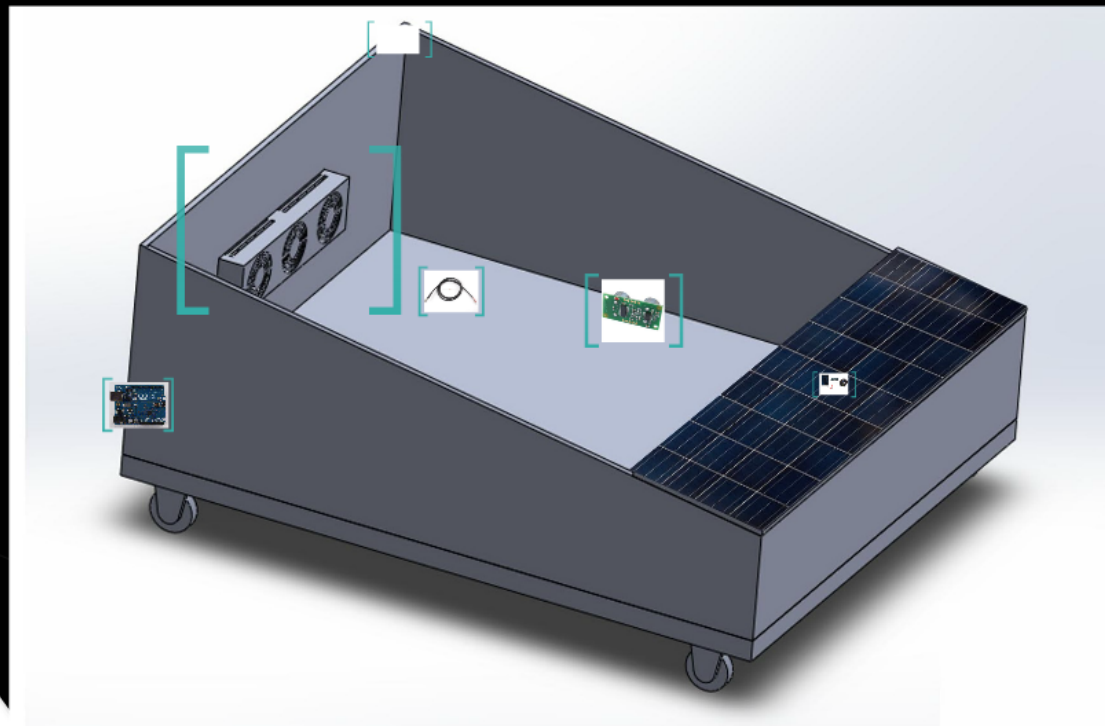


State of the Art



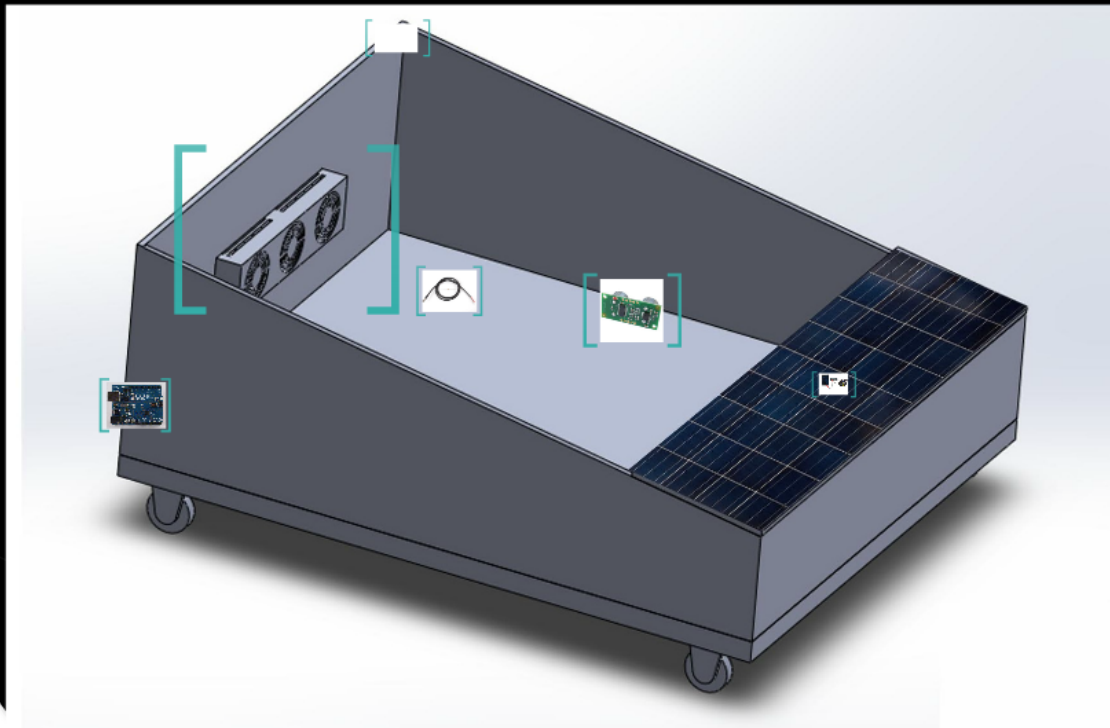


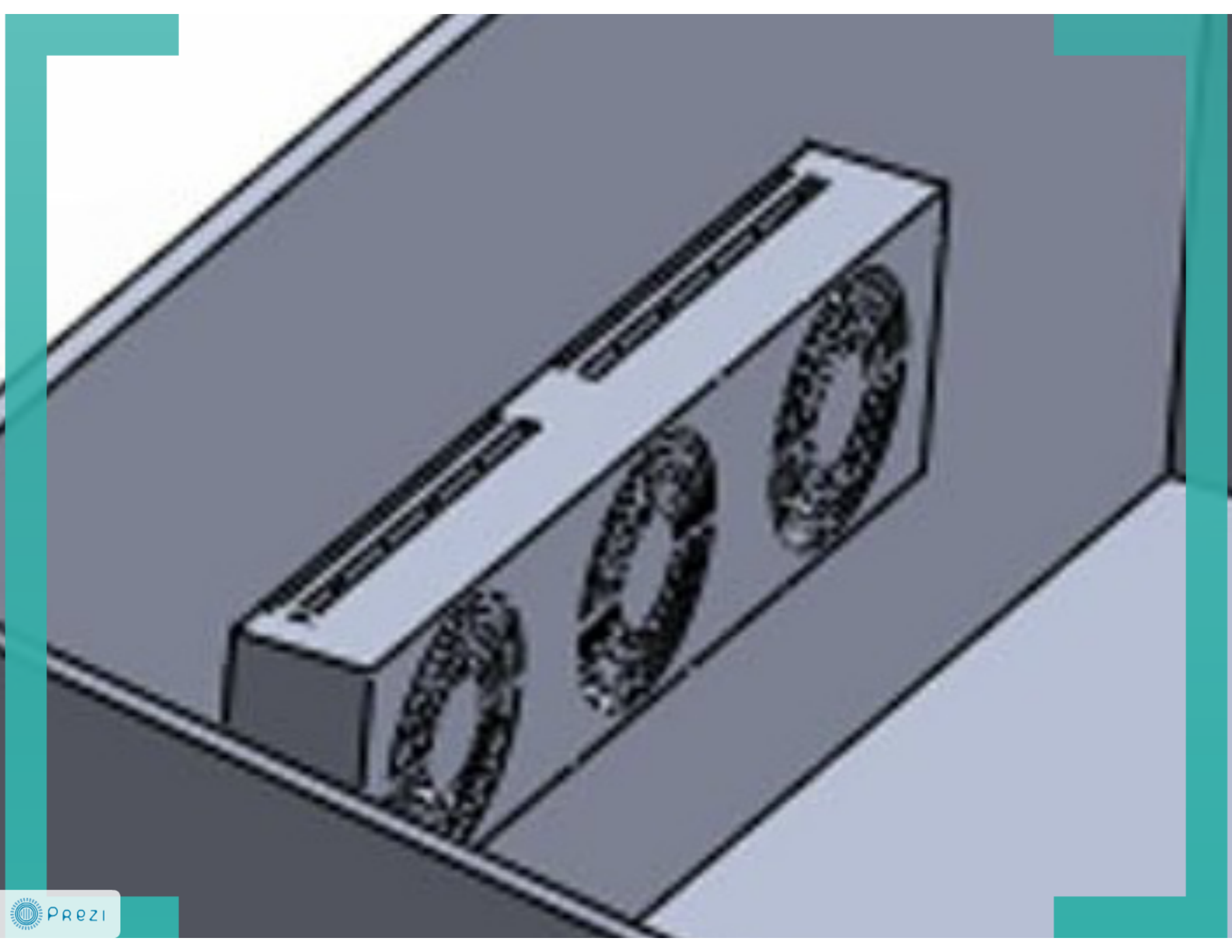
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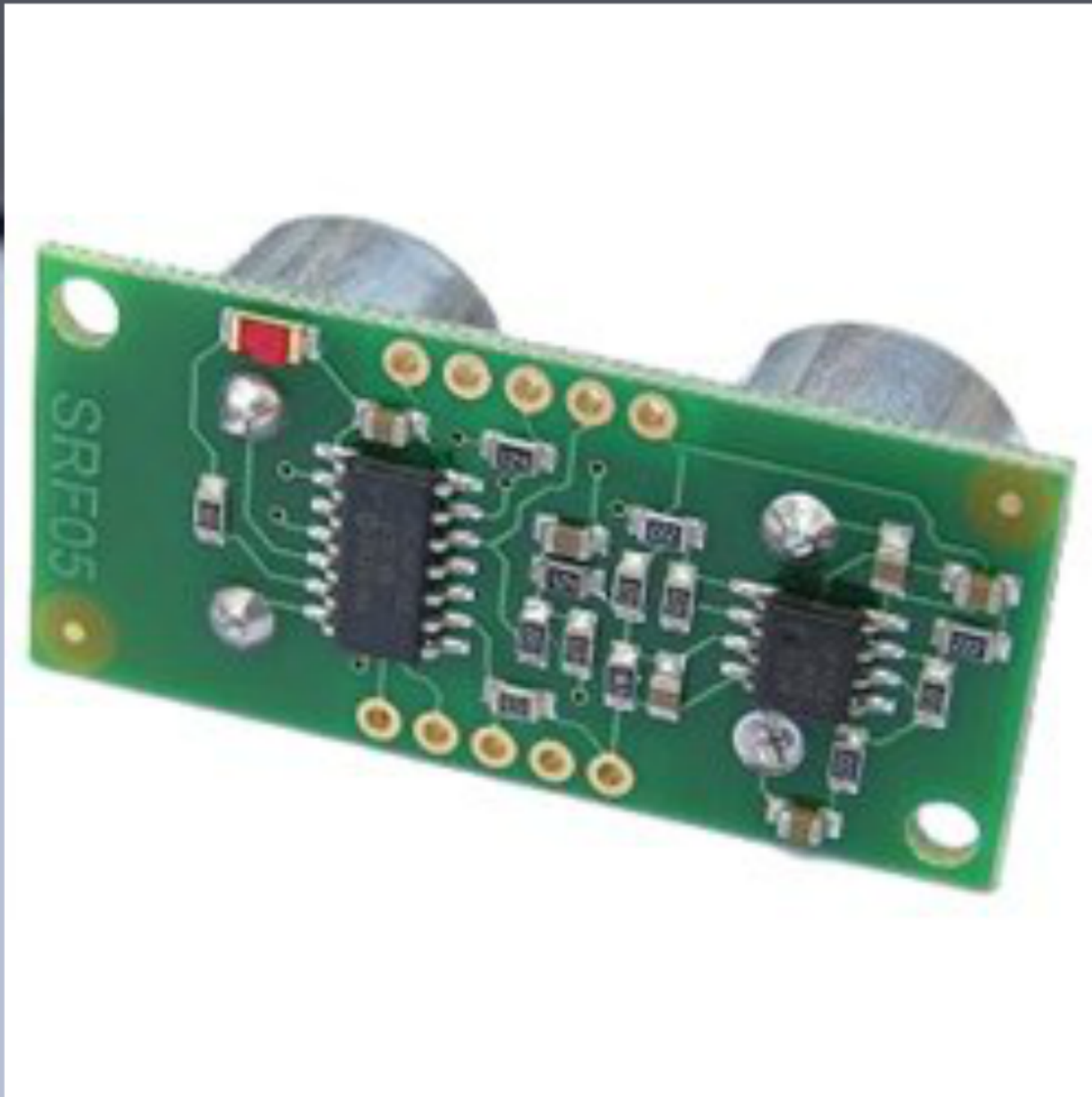




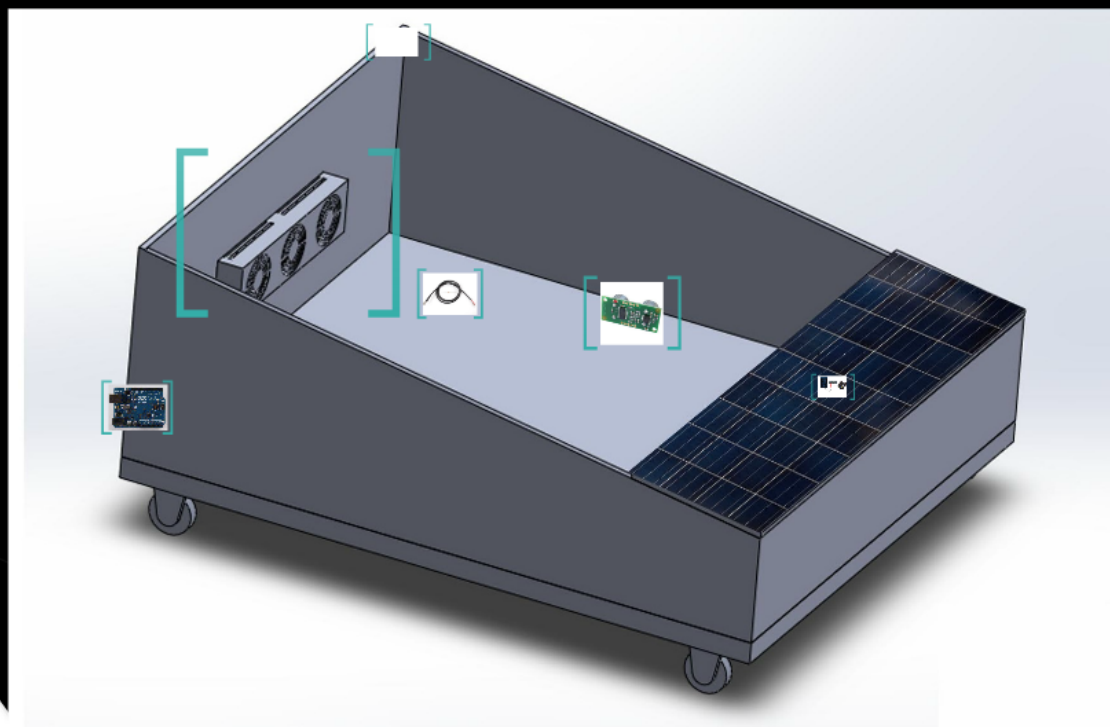
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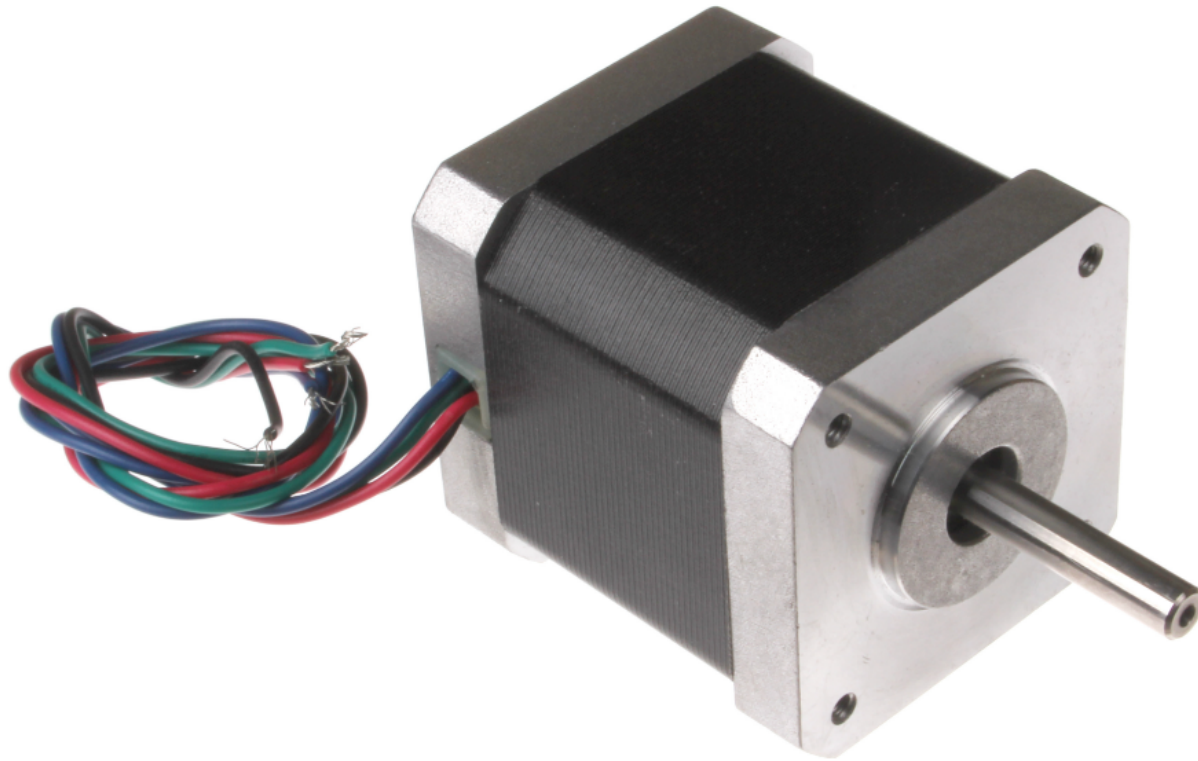




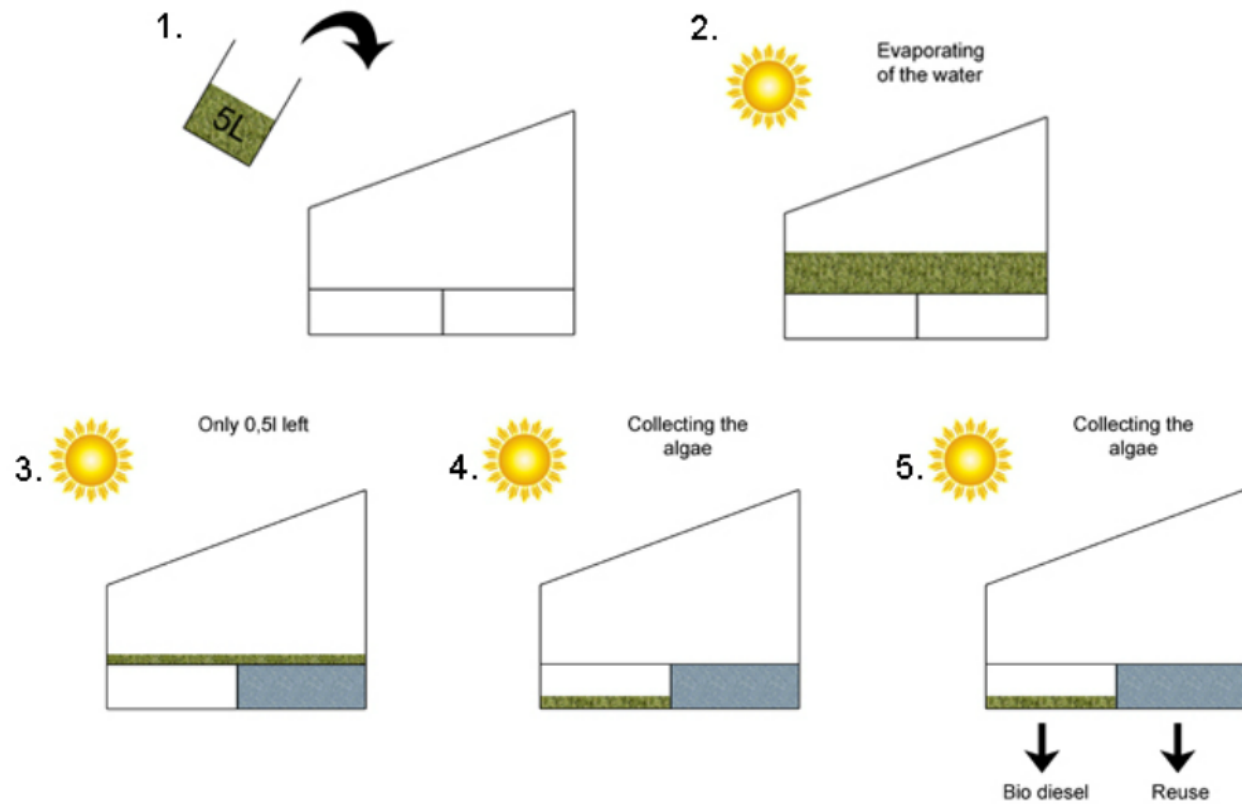


State of the Art





Way of operation





Marketing plan

In times of worldwide air pollution

**How can we produce enough
to meet the demand
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- 1. universities**
- 2. energy market**

Ethics and deontology

- **Ethics in engineering**
- **Due-care model**
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Sustainability





Sustainability



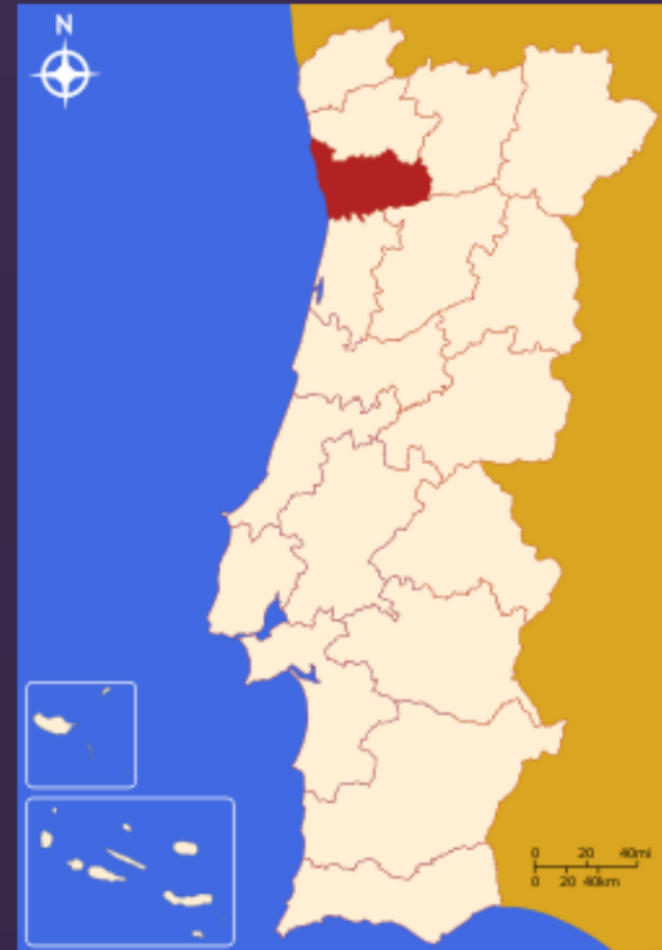


OR



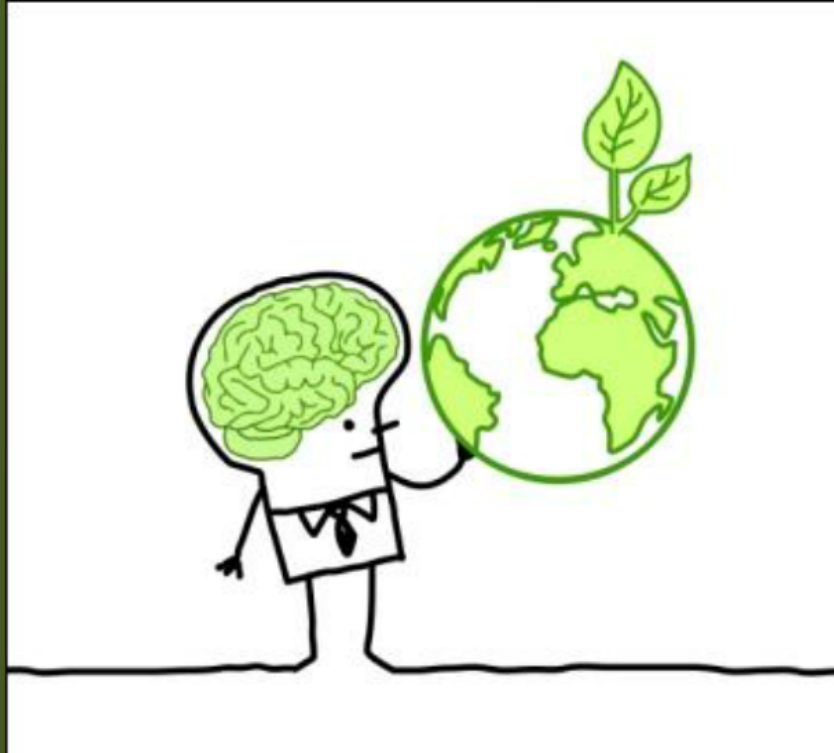
Sustainability





Sustainability





Conclusions

- **Distilling process**
- **Materials**
- **Sustainable product**
- **View for the future**

References

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