2/3/2021

Project Charter: **The GreenBin**

**Executive Summary:**

At the end of this project:

We will have a working prototype of a stand-alone structure that collects solar energy when in sufficient sunlight, sorts recyclable materials by type, bags said materials for pickup, grabs and lifts collection containers for customers, and tracks data on the amount of recycled materials collected.

It will be good for the planet and profitable for waste management companies.

**Goals:**

· Solving the problem of recycling contamination.

· Increasing the recycle product like glass, plastic and metal

· Less garbage on the rivers and lakes.

**Scope:**

This project is:

· A recycled materials sorter, with sorting visible from the outside of the product.

· A recycled materials bagger, that can signal when it is full, or a fault is detected.

This project is not:

· A recycled materials cleaner

· A plastics sorter

· A solar energy power source

**Key Stakeholders:**

|  |  |
| --- | --- |
| Client | Government, Green Investment Companies, Waste Management Companies |
| Sponsor | Toraj Khavari |
| Project manager | Brady Esplin |
| Project team members | Gabriel, Bernard, Brady |

**Project Milestones:**

Target Date - 08/15/2021

Project Start - 2/15/2021

Complete Solution Design - 5/1/2021

Complete Solution with Hardware/Software - 6/15/2021

Complete Solution Simulation and Testing - 7/15/2021

Deploy Solution - 08/01/2021

Project Complete - 08/01/2021

**Project Budget:**

Personnel Resources - $200,000

Software and Licensing - $140,000

Hardware - $70,000

Testing - $50,000

Promotional Materials - $40,000

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Total Cost - $500,000

**Constraints, Assumptions, Risks and Dependencies:**

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| Constraints | All materials must be purchased in accordance with the allocated budget and timeline  The materials used for the Green Bin will be made from recyclable waste |
| Assumptions | This project has the full support of the project sponsor, stakeholders, and all members of the team.  The invention manager will provide additional resources of how the product will develop if that is necessary.  Everything will be communicated throughout the company prior to deployment. |
| Risks and Dependencies | Potential disruption of mechanism during the launching prototype.  Reception of the public to change in recycling methods.  High price of the product will be a risk for the project. |

**Approval Signatures:**

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| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Waste Management Company, Project Client |  | Toraj Khavari, Project Sponsor |  | Brady Esplin, Project Manager |