











## VII. DRAWBACKS AND FUTURE SCOPE

In comparison to polycrystalline solar panels, the solar panel utilized here is less efficient and produces less power. In order to run Mow-Bot at full speed, the battery system employed here requires more time to charge fully. Adding several classes to detect different types of grass, as well as using an advanced camera and battery management system, could be used to improve the model.

## VIII. SUMMARY

The presentation of our concept culminates in the creation of an autonomous system (Mow-Bot) that can detect and defoliate all unwanted weeds that are threatening the health of the vital plants. The team's goal is to create a system that is low-cost and makes efficient use of open-source resources at no additional cost. When implemented in a large number of farms, the project can limit the growth of weeds and grass, hence enhancing the nation's food crop production. People dying of hunger is one of the world's greatest issues. Only when there is enough food for us can we be free of hunger. And this is only achievable with effective crop growth, which can be achieved indirectly with Mow-Bot.

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