

Team ID: ATC55

School Name: Academy for Technology and the Classics

Area of Science: Botany/Agriculture

Project Title: Aerial Farming

Our project is centered around common but easily fixable problems that farmers face in keeping their farms and crops healthy. In many farms, both small and commercial, there is always an issue of certain areas not receiving enough resources to survive, while other areas receive too much of the same resources. This leads to inconsistent crops that cannot adequately support farmers and do not produce enough to fill the consumer demand. By writing a program that can prevent these problems, individual farmers as well as entire communities would benefit. We plan to accomplish this by writing a program in Java that will be able to notice inconsistencies between completely healthy crops and those with issues that are easily fixable, but may be hard for the farmer to notice. We will accomplish this by accumulating aerial photos of fields and creating a software that analyzes the colors and other aspects of the field; it will then compare the data to a healthy crop, which will identify the areas where the crop isn't healthy.

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