# **DAILY PROGRESS REPORT**

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| DATE | TASK ACOMPLISHED |
| 22ND May -23rd May | Aruco Generation and Detection |
| 24th May-25th May | Plotting trajectory using Aruco(Top View Camera) |
| 26th May | Learning about and applying Lucas Kanade Optical Flow Algorithm(Side View) |
| 28th May | Refining Lucas Kanade to Detect only one feature |
| 29th May -31st May | Extracting Arena Using Thresholding(Otsu) and Contour Filtering |
| 1st June -2nd June | Fixing Light Gradient issues In thresholding and performing perspective warp |
| 4th June | Learning about Feature Matching and various algorithms like AKAZE SURF SIFT BRISK BRIEF |
| 6th June | Preparing the PPT for the First Progress Review Session |
| 7th June | First Progress Review Session |
| 8th June | Reducing offset by using Colour Filtering by placing a coloured marker on the top of the robot |
| 9TH June | Plotting Trajectory using Colour Filtering Method |
| 11th June | Thresholding using HSV filtering Method |
| 12th June | Using only Canny Edge Detection Algorithm to make thresholding robust and removing HSV filtering |
| 13th June | Evaluating the trajectory using programmatic checkpoints |
| 14th June | Evaluating trajectory using feature matching methods |
| 15th June | Studying about HOG features and Numpy Correlation function |
| 16th June | Applying HOG features and obtaining the correlation |
| 18th June | Using physical coloured checkpoints for timing various parts of the code |
| 19th June | Code Integration |
| 20th June | Preparing presentation for the Second Progress Report |