

Final Report:

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Executive Summary:

The goals of the project was to create a robotic arm that was supposed to sort shapes based off of if it was a square or triangle. My robot did not meet this requirement, nor did my code properly distinguish the shapes. The stakeholders would not be satisfied with the arm's performance, nor feel that the robot was visually or functionally satisfying.

Analysis:

The goals of the project was to create a robotic arm that was supposed to sort shapes based off of if it was a square or triangle. EmguCV C# with visual processing was used to detect shapes, while Arduino and C++ to operate the servos to move the arm to the proper coordinates.

Recommendations:

For technical improvements, EmguCV and C# as a whole need to be taught more thoroughly in U.R.I. As far as corrective actions go, I know Professor Long will do a much better job for students in U.R.I to teach EmguCV and C#. I am happy to know that they will be in better hands.

Lessons Learned:

Managing time will be a big focus for any projects faced in U.R.III. I plan to start immediately after being assigned, and set weekly goals for the project's progression.