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ENGN2045 – Computer Vision

Professor Difillippo

Project Proposal

For our project we are going to use OpenCV functions to allow a webcam to find the center of a circle that we set up. And a laser pointer that will point at the center of that circle. We found this project to be very interesting and hopefully it will challenge our coding and OpenCV skills.

We will complete this project by using a standard webcam to pinpoint the circle and find the center, two micro servo motors attached to each other, to allow the laser pointer to move up, down, left, and right, and an Arduino Uno to power and make everything work properly.

We hope to have all of our materials gathered by the weekend of April 2nd. We also plan to have our machine assembled and wired within two weeks of having all the materials together (April 15-16th the latest). We intend to finish the coding 1-2 weeks before the project is due, so that we have time to fix any minor errors we made and create the presentation and report.