

BUBBLESTEEN BUBBLE MACHINE

A Project Proposal
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Adam Halawani
200393096

Introduction

In this project I will create a machine that will blow bubbles, it's a robotic arm that dips the plastic ring in the bubble solution and put it in front of the fan which makes the bubbles.

Novel Contribution

The novel contribution that is being added here is another fan that is programmed to turn on while the other fan is on so the bubbles can fly up instead of go forward and fall down.

Motivation

The motivation for this project is that I was always curious about how robots like this are programmed and how they are made for people to enjoy even though the robots do not serve an actual purpose other than making the crowd smile.

Materials Required

According to the project website, the following materials are required:

- Arduino UNO
- 2 DC motors.
- 2 6 Gram Servos (HXT 500).
- (2 fans for DC motors) https://hobbyking.com/en_us/master-aircrew-propeller-6x3-2pcs.html
- Adafruit Motor/Stepper/Servo Shield for Arduino v2 Kit - v2.3
- Bubbles toy (Dollarama).
- Carton (for the body of the robot)

Milestone 1	February 15	Have all the parts ordered
Milestone 2	March 1	Start working with available parts and start programming parts.
Milestone 3	March 15	Finish the first Code to run
Milestone 4	April 1	Have a built Version of the robot running and ready
Milestone 5	April 15	Have the rest of the project papers ready and uploaded to GitHub.

This project is simple and can be done, the project can be done within the given time.

Team Roles

I do not think I'm going to be in a team with any more people as I can finish this on my own.

Summary

As long as everything goes as planned, I will be able to finish the project with the novelty that I proposed.