**Juice Cleans**

**“We’ll make your floors juicy!”**

GOALS

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Our goal at Juice Cleans is to develop products to help clean the classrooms of YCST.

OUR PRODUCT

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What we plan to make/start in the 4th quarter is to modify an already existing cleaning robot. The modification will include a mop with water and will spray the floor to clean the mostly dirty tiling.

PLANS + PHASES

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We plan to do this firstly by purchasing a cheap robotic vacuum cleaner, hose tubes, nozzle, water + cleaner supply holder, mop head/scrubbers, arduino board (to control spraying and scrubbing). The first phase is drawing a blueprint of the mop robot. This consists of inner schematics and outer schematics of sides, top, and bottom. This should only take 1-2 weeks.

The second phase of the project, which should begin only taking 1 week, is getting the supplies mentioned in place (The time varies depending on shipping speed). If this is completed earlier than given, discuss the situation with the group and begin phase 3 early.

Phase 3 consists of actually taking apart the robot and removing parts like its vacuum or the storage for picked up items. Then, after all the unnecessary parts have been removed, we begin inserting and attaching new parts. These new parts would include things like an arduino board, scrubber/mop head, water + cleaner supply holder, and the hose + nozzle. This would take 1-2 weeks.

Phase 4 consists of making use of the arduino board and connecting them to the arduino board, as well as preparing it to make more complex parts that require a program to operate. This phase will likely take longer, as someone would need to learn how to program with arduino boards. However, with this, this should take us around 2-3 weeks.

EMPLOYEES

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The people who would be involved in the creation of the “Mop Roomba” would be Tyler Siegmund, John Eckert, and up to 2 juniors who apply.