**AUTOMATED MINI FRUIT JUICE DISPENSER**

**Group members:** Berkan Alsancak (115202027), Fatih Kıran (115200082), Mehmet Öztop (116200082), Berk Şardan (115202053), Onur Üstün (115202120), Cahit Kayın (115202075)

**Roles:** Berkan- circuit & structural design, Berk- designing the motors for caps that hold the granulated powder, Fatih-coding & documentation, Mehmet-coding & documentation, Onur- designing the motors for caps that hold the granulated powder, Cahit- motor design & budget research

**Aim:** Is to create a fruit juice dispenser that uses powdered\granulated fruit juice and a water supply. The process of mixing the powder with the water is going to be automated with a mixer division and the finalized fruit juice will be automatically poured into a cup with a simple activation. Therefore, we’ll end up with fruit juice without manually stirring the mixture and without manually pumping the juice.

**PLAN**

**1st week-** System design: Drawing the outline, deciding on the appropriate materials for the project.

Research: estimating an average cost for the project, getting the supplies.

**2nd week-** Building the dispenser: putting the circuits together, setting up the motors for the caps, setting up the system for the mixer, constituting the water pump, connecting every division with each other and putting them into the their planned position.

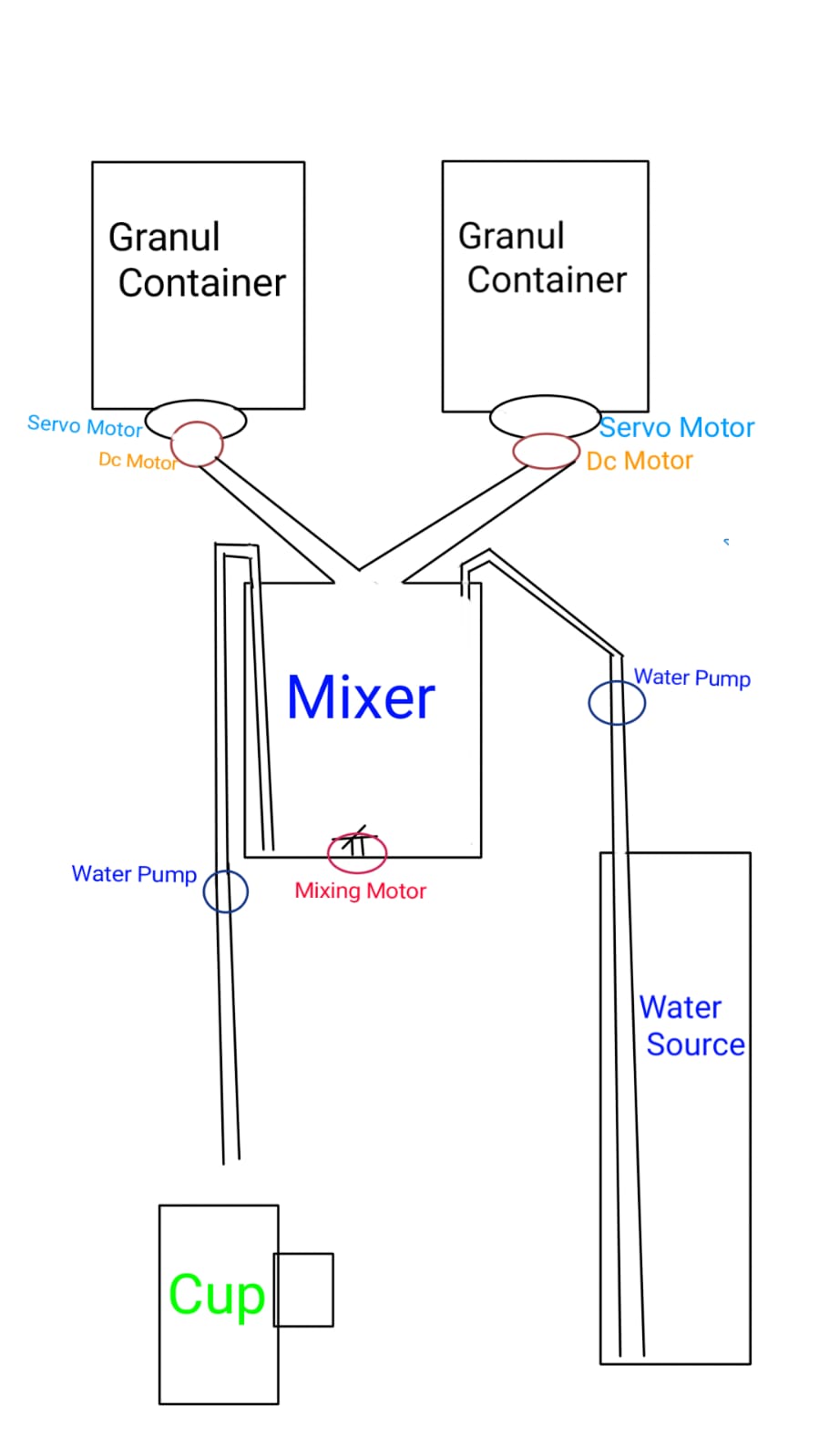
Coding: setting up the software to work with Arduino, setting up the control mechanisms for automation.

**3rd week-** Testing: running test attempts of getting a cup of fruit juice from the dispenser, checking for errors like water leakage around the circuits, checking to see if there is dampening or any similar problems with regard to our powder.

Finalizing the documents: making sure that they’re in proper format, that there are no missing parts and that they’re in proper order.

Improving: bettering the dispenser with possible additions, adding new features with regard to software.

**OUTLINE**

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