

# الكلية المصرية الكورية لتكنولوجيا الصناعة والطاقة EGYPTIAN KOREAN FACULTY OF TECHNOLOGICAL INDUSTRY AND ENERGY

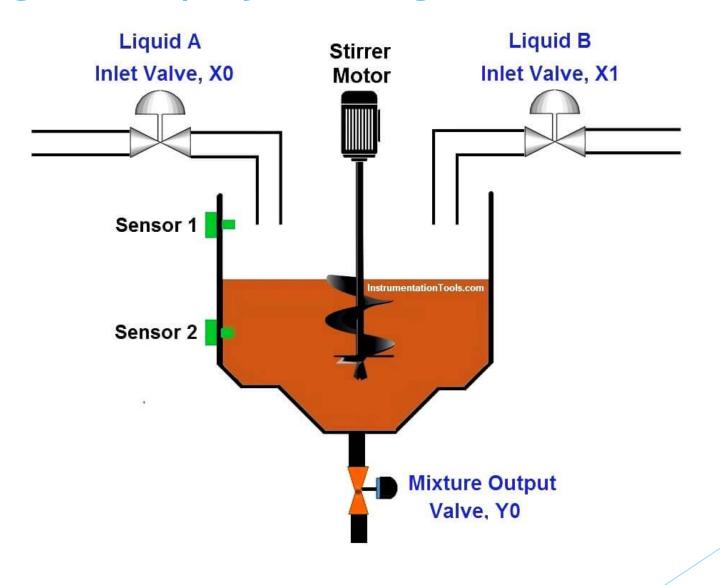


# Mixer project

#### **Team work:**

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- Aly Mahmoud
- Kareem Sobhy
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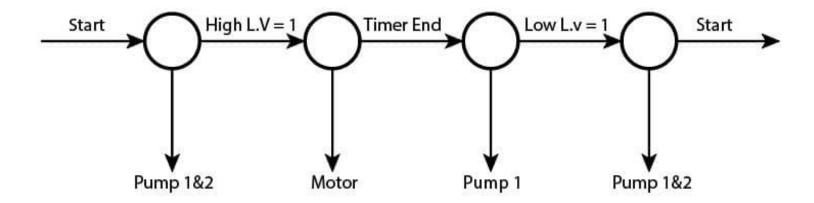
#### Imagine the project design



#### Way of work:

- We have machine that pumps two different liquids into the tank In different quantities,
- until the high level sensor senses the liquid reaching the specified height,
- Then the pumps stop working, and then the mixer works for a period of time.
- and then the mixer stops, then pumps the ready liquid from the first tank to the second tank.

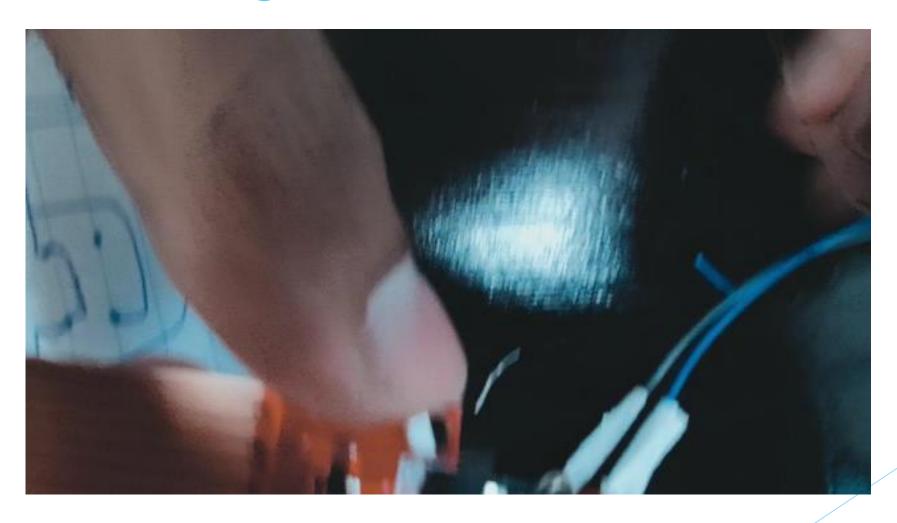
## Sequence of project:



## Ladder diagram

```
X001
                                                                                                                             K100
      start pb
 TO
            Y001
                                              TO
                                                                                                                        pump 1
                                                                                                                        Y001
Y004
                                                                                                                        pump 2
                                                                                                                         (Y000
            Y000
                                                                                                                             K150
 sensor high level
X002 T2
                                                                                                                             K200
 Y002
                                                                                                                        motors
                                                                                                                         Y002
 T1
Y000
           Y001
                      Y002
                                                                                                                        pump 3
                                                                                                                        Y003
sensor low level
X003
                                                                                                                        repeat circuit
                                                                                                                        _(Y004
                                                                                                                        END
```

# Video during work:



#### Components used:

Adapter with a variable value.



Adapter 5 volt.

4 relay 24 volt dc.

2 level sensor.



> 3 tanks.



#### Under supervision:

- D/ Amir yassin
- Eng/ Emad wahba
- Eng/ Ahmed tareq
- Eng/ Mostafa el-hagry