Project Proposal

Telecommunications (247-410-VA)

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Description: This project will be similar to a miniature version of a flood gate/canal. A small rectangular clear reservoir will hold water with a separator to separate the reservoir in two. A positioning motor will control the separator to open or close. Two sensors will be used as water level detection and a small water pump will be used to pump the water from one side of the reservoir to the other. Water will be always on both on sides; the goal is to control when the water flows into each side. A Bluetooth module will communicate with a mobile phone two show the status of the reservoirs.

Parts needed:

- ➢ (1x) 16x2 LCD display.
- ➢ (2x) HC-SR04 sensors.
- ➢ (1x) Arduino UNO.
- ➢ (1x) positioning motor.
- ➢ (1x) small water pump.
- ➢ (1x) Bluetooth module.
- ➢ (1x) small Tupperware.
- ➢ (1x) small piece of acrylic .
- ➢ (?) 220Ω resistors (for LEDs).
- ➢ (?) long toothpicks (for motor support).
- ➢ (?) LEDs.
- ➢ (?) wire.

Sketch & Schematic:

- ➢ See next page.

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