
Dynamically Refreshing Interplexing Number of Cordials

Proposal

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1 Broad Scale Description

The Dynamically Refreshing Interplexing Number of Cordials (DRINC) is a machine that can create drinks from multiple bottles or sources. Such a machine has the potential to produce drinks with higher accuracy of mixture proportions.¹ Along with this, humans tend to have differing tastes and likes. This means that the recipe for a drink could vary between customer to customer. To reach the desired potential for the DRINC machine, it must be able to automate the creation of the drink and be able to accept any recipe that uses the ingredients, and quantities, it contains. While there are multiple drink pouring machines available on the internet [2] [1], the DRINC will allow for easier automation and use.

2 More Detail

The DRINC will have an array of multiple bottles. This allows for a massive variety of mixed drinks. To be able to handle this, the machine will handle this task by having a database containing a list of drinks. To be able to measure the amount of each liquid in the mixtures, the machine will measure the flow of the liquid. This will also allow the DRINC to keep track of how much of each liquid is left, at any given time.

The DRINC will have two front ends: one via a web site and one via an Android tablet. The web site will allow the owner to administer the machine. The Android tablet will be attached to the machine. This will be the main front-end used by the user to select a drink to pour.

3 Deliverables

The following are deliverables for this project:

¹Humans use methods like seconds poured or pour equivalent heights in a glass, but none actually measure the volume that has flown through the spout.

- Grid array holding all bottles with attached flow meters
- Micro computer controlling the movement of cup on grid
- Micro computer controlling the flow of the drinks
- Web based front end for drink creation per user and administration
- Android tablet front end on robot for use front end

Some possible deliverables for this project:

- NFC relating to drinkers profile
- LED light show while pouring drinks

References

- [1] Ian Cooper and Jake Osborne. The inebriator - arduino powered cocktail machine. <http://www.theinebriator.com>.
- [2] jamiep. Build a movile bar - bar2d2. <http://www.instructables.com/id/Build-A-Mobile-Bar-Bar2D2>.