

Project Proposal

Adaptive Appliance

Arnaud Bacye, Karina Dubé, Justin Erman, Matthew Martin

Problem Description

Some devices at ADEC are not well suited to the needs of clients.

The KitchenAid Mixer, for example, cannot be used by all clients independently



Proposed Solution

A remote control device used to operate the mixer will allow the appliance to be usable by clients who were not able to use it previously.



http://ecx.images-amazon.com/images/I/8161xVvB2XS._SL1500_.jpg

Demonstrated Features

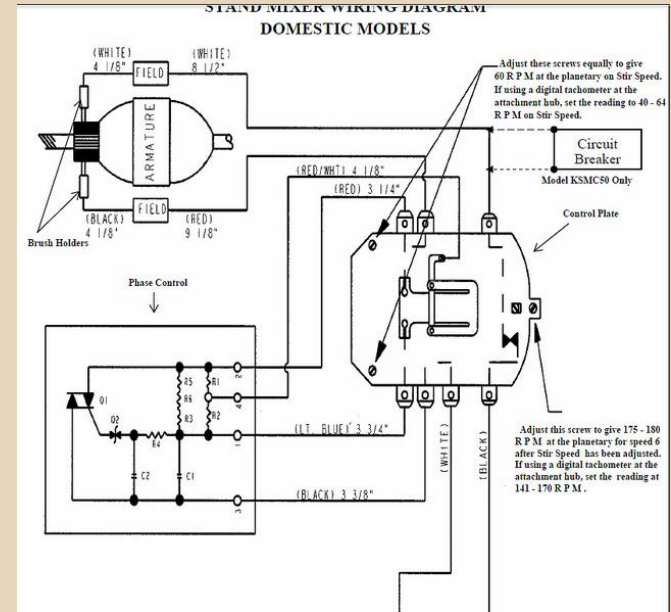
- Fully functioning prototype
- On/off button
- Mixer speed control
- Increment/decrement switch

Available Technologies

- KitchenAid Mixer
- Basic and button switch
- Bluetooth/Infrared
- LEDs

Engineering Content

- Knowledge of circuitry
 - Button implementation
 - LED (power, speed setting)
 - Battery sensor
- Wireless Communication



Engineering Content (cont.)

- Circuit modification
 - Revise existing mixer circuit
 - Add on/off
 - Electric speed select
 - Receive wireless input from remote

Conclusions

- Improve mixer for ADEC clients
- Enhance interactive and independent experience
- Demonstrate engineering ability

Questions?