

Meeting Minutes (23 March 2015)

Karina: Board Design

- intends to use multiple boards
- Mixer side: power supply, triac, micro controller
- Power supply can be a board by itself as well as the triac control system.
- Check with Clint for button mounting parts.

Justin: RF communication

- Account for stabilization of the system (voltage specifications: ~ 5V for sender)
- might need antennas
- Consider transmission only when it is all logical 0 or 1
- Lightpack (look into transmitter mechanism for further analysis)

Matthew: Speed control

- Functional code for zero-crossing detector and TRIAC triggering
- know when to increment or decrease delays
- Implement ways to stop execution if system is not working.

Arnaud:

- Make sure the parts are rated the right way
- Figure out the size and the specific parts for board design.

Other Comments/Concerns:

- Board takes 2 weeks
- Recall spacing conditions (0.8 mm spacing for 45 pins and 0.5 mm for 64 pins)
- Verify grounds and power