Meeting Minutes (3/2/2015)

- Discussed subsystems:
    - Karina: Interface Update
        - Moving buttons off of the external interrupts
            - Single Interrupt (using diodes)
            - Polling? Main function is relatively short, check on loop to see if button is pressed, activate flag, select appropriate state, reset flag
            - CN (change notice) pins
    - Justin: Communications Update
        - No need for encoder or decoder- Recommended UART
        - Receiver and transmitter have been purchased
        - Antenna optional, might be necessary
        - Program has been started, further coding is necessary
        - Plan of action for RF: first through air a short distance, then a longer distance, then through the metal casing, then long range through the casing
    - Matt: Motor update
        - Optocouplers (need a current limiting resistor for the internal diodes)
        - ZCD – bridge rectifiers and pins
        - Concerns: resistors and wattage
    - Arnaud: Power Update
        - Battery life indicator using A/D converters.
        - 9 Volts stepped down to 3.3V.
        - Currently using potentiometers to light up LEDs

        - LCD screen? It would show the battery life.
        - LED color indicator? Lights up an LED as soon the voltage drops below a threshold (would turn off if it dropped even further below)
        - If running and battery fails, stops mixer from running
        - Need: model discharge characteristics, choose a battery that drops gradually or drops precipitously

- Additional Discussion:
    - Failsafe: could energize something to turn on the triac.
    - Backup battery – unnecessary?
    - Parts ordered: All power parts, RF parts
    - Parts that haven't been ordered: Buttons, encoder and decoder