The Boobatron

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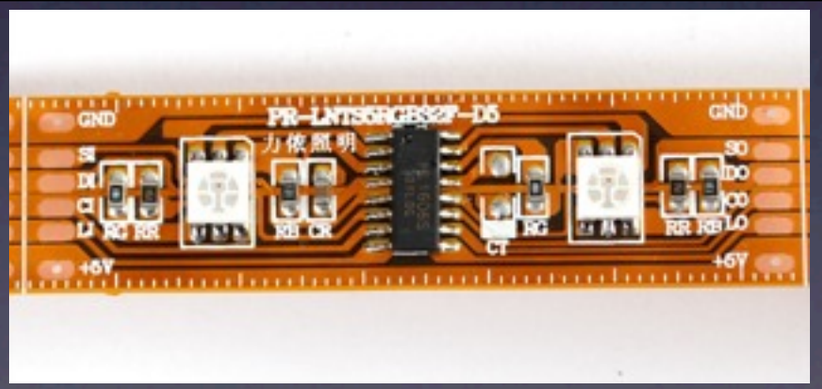
Sound in

Processes analog mic signal into 7 frequency bands, sends to Arduino

Uses frequency info to send pattern commands to LED strips



RGB LEDs chained together with shift registers transmit info down the strip and light up according to instructions from Arduino

Hat and Leg Warmers

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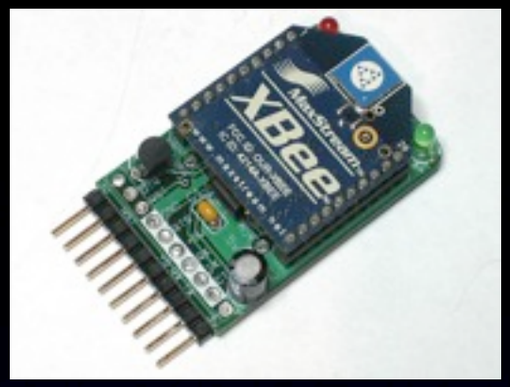
Sound in

Processes analog mic signal into 7 frequency bands, sends to Arduino

Motion

Accelerometer gives measure of 3D motion



Wireless

Arduino tells Xbee module to transmit equalizer & pattern info to receiver Xbees

Uses frequency & motion info to send pattern commands to LED strands

RGB LEDs chained together with shift registers transmit info down the strand and light up according to instructions from Arduino (intrinsic PWM)

Hat and Leg Warmers

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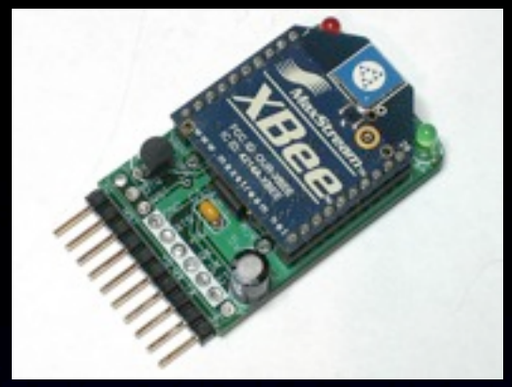
Sound in

Processes analog mic signal into 7 frequency bands, sends to Arduino

Motion

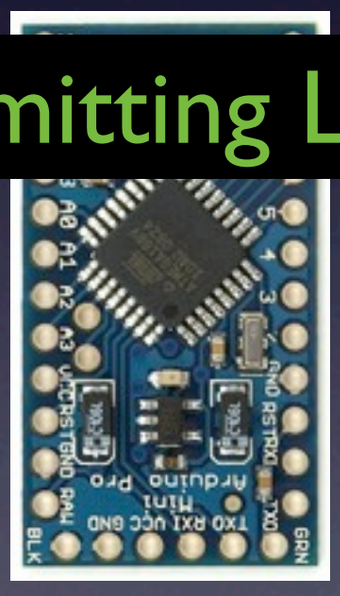
Accelerometer gives measure of 3D motion



Wireless

Arduino tells Xbee module to transmit equalizer & pattern info to receiver Xbees

Transmitting Leg



Uses frequency & motion info to send pattern commands to LED strands

Hat

Other leg

RGB LEDs chained together with shift registers transmit info down the strand and light up according to instructions from Arduino (intrinsic PWM)

LED Matrix Thingy (we're working on a name)

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LED Matrix Thingy (we're working on a name)

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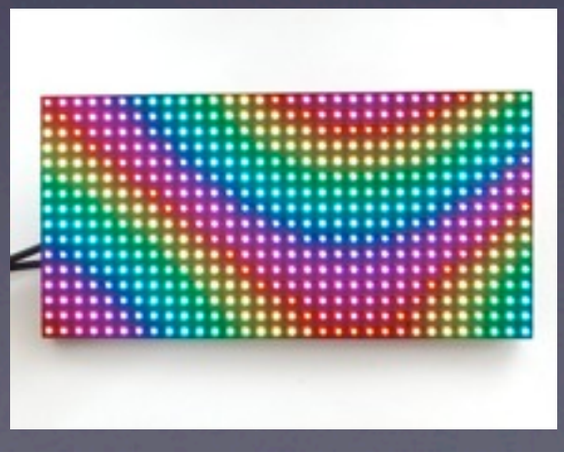

Pinguino takes in analog mic signal, processes into frequency space, and then drives the RGB matrix display.

LED Matrix work with Sudhu Tewari

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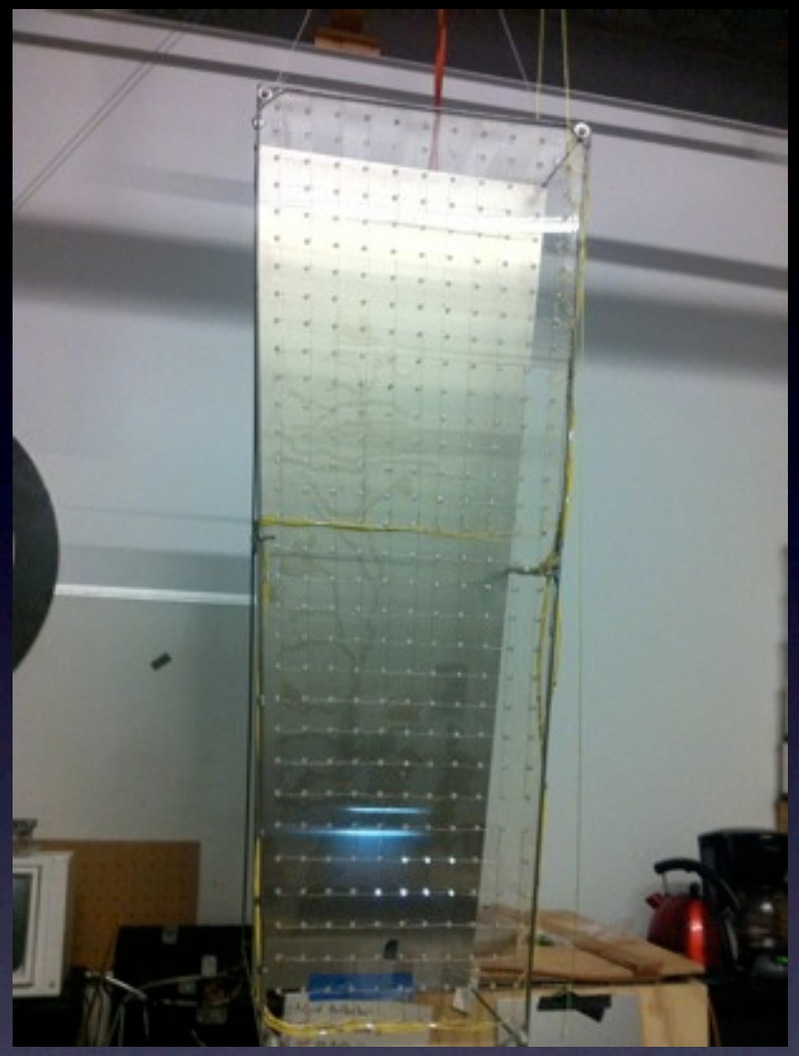
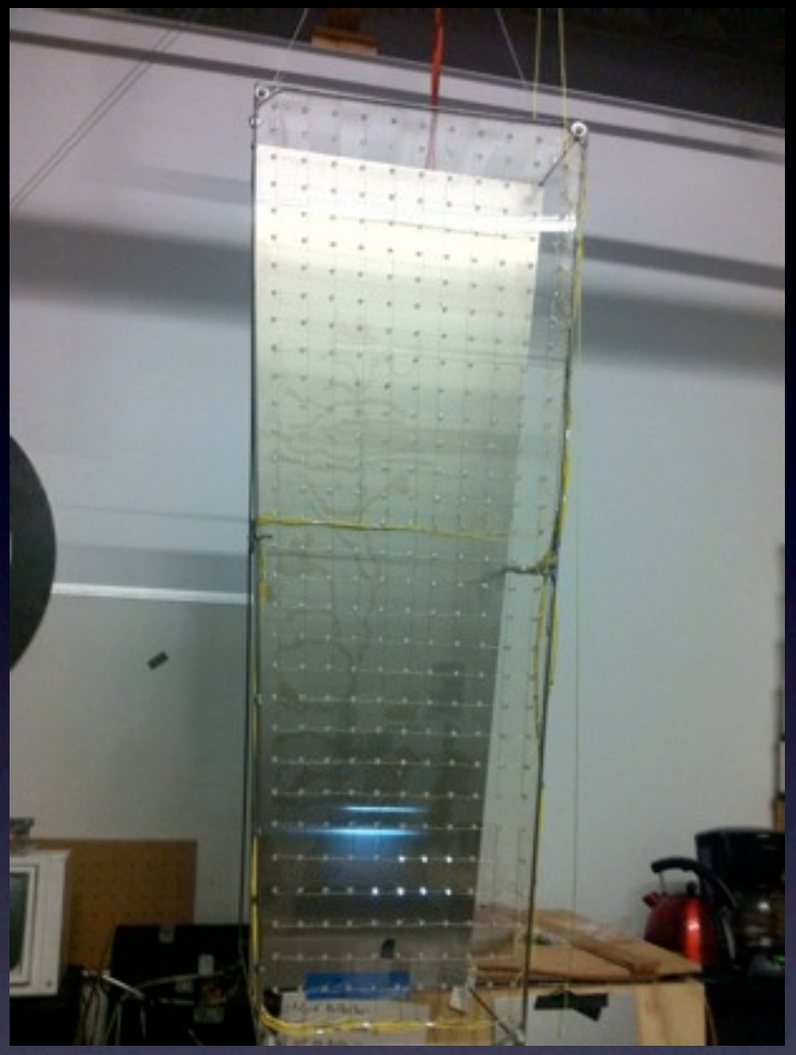


LED Matrix work with Sudhu Tewari

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