Design Goals

- Lighter construction
- More mobile (within studio)
- Easily sourced components
- Less dependency on studio set-up (e.g. lights)
- Simpler to build

Components

- 80/20 extruded aluminum (lightweight, commercially available)
- Electronic “flipping” instead of mirrors
- Height sized to fit through doors
- On casters for mobility
- LEDs mounted to light the speaker as well as the board
- 3D-printed components to mount the LEDs
- Adjustable light levels for board and speaker, independently

The original

- [http://lightboard.info](http://lightboard.info)
- Designed by Michael Peshkin at Northwestern University

http://tinyurl.com/dukelightboard
**Writing**

**Markers We Tried**
- ExpoNeon
- Expo Brightstick
- SRX Wet Erase
- PopArt Fluorescent
- Window Writers

*Tip: May be best to mix brands for highest contrast*

**Factors**
- Erasability
- Squeakiness
- Wet vs dry
- Colors displayed on glass vs on video

**Recording**

**Tips**
- Use black backing for notes
- Use grid paper to pre-draw lines
- Practice facial expressions while writing
- Look directly at the camera when not writing
- Use lights to “turn off” speaker image but leave writing
- Leave 3” margin to avoid having frame in video
- Practice on equal-sized whiteboard
- Consider pre-writing/drawing some content
- *Print* legibly
- Aim for one (1) board’s worth of content per video *or* plan a transition when the board can be cleaned

**Cleaning**

**Materials Tried**
- Microfiber cloth
- Cotton cloth (old t-shirts)
- Non-woven materials
- Terrycloth
- Paper towels

*Tip: Make sure whatever you use is clean!*

**Cleaning Solutions Tried**
- Dawn+water (probably best)
- Water
- Windex, Rainex (and other glass cleaners)
- Toothpaste
- Pencil eraser
- Coffee pot cleaner
- And more!

*Tip: Easiest once marker is dry!*