2013 RadioShack Challenge
Final deadline: June 30, 2013

Concept
Build an enclosure modeled after a UK Police Callbox (recognizable as a Tardis from Dr. Who). The enclosure will contain a video game similar to lunar lander. The game will be controlled by an EEG headset a a couple of simple push button controls to allow the player to control the Tardis and attempt a successful landing.

Project Component Summary for Major Deliverables

Enclosure (Tom)
Budget: $200
Build scheduled for weekend of 6/15
Model scaled to about 4' x 4' x 7' using plans from one of many Internet sites

Video Game (Neil)
Budget:
Rough, playable version to be ready before Neil takes off for a week
Game will be written to run on a rPi using Python with the Pygames library. Video output via HDMI with an optional screen over the RCA jack to drive an old school video effect.

Special Effects and Headset Integration (Bill)
Budget: Covered by RS gift card with money to spare (I think)
1. Hack the Force Trainer to interface it to an Arduino. Build a pack with the arduino, battery, and xbee radio to accompany the headset for the player.
2. Design enclosure interior to meet project specifications
3. Create an internal and external light show to accompany the gameplay and add visual interest for the video.

Display Technology (Eric)
Budget:
Confirm that his pico projector will meet our needs. Determine how displays will be integrated into game play.

Unassigned deliverables:
1. Video Production
    a. Storyboard our final video. We want to give the entire project a backstory to make the video flow and introduce the core team and project.
    b. Create as much of the video content as possible now so that we don't have a huge crunch at the end to produce a solid video.
    c. We could use a skilled videographer and graphics artist to support this. Music for the video (open license or custom is necessary).

    d. Closing credits
2. Rocker mechanism for the Tardis

Outside Resources/Skills we may have access to or need
1. Bill knows a guy at USF who runs the Python Programming Club.
2. Eric knows a videographer
3. Bill knows a composer/musician.

Contact Info for Core Team
Bill Shaw
813-249-5522
toppsoft@gmail.com
Twitter @inanimatereason

Neil Marr
813-503-8204
nam@tampbay.rr.com

Tom Bergeron
813-909-5457
Tom234679@gmail.com

Glen Fuenmayor - Pop Mechanics
212-649-2896
cell 917-523-2375