Instructions to get a new information display running:
1. Install Chromium on the Raspberry Pi (Skip if PIXEL desktop is already installed). To install chromium, run the following commands individually on the terminal:

Command 1:
```
Wget
https://launchpad.net/~canonical-chromium-builds/+archive/ubuntu/stage/+build/
7916060/+files/chromium-browser_45.0.2454.85-0ubuntu0.15.04.1.1181_armhf.deb
```

Command 2:
```
wget
https://launchpad.net/~canonical-chromium-builds/+archive/ubuntu/stage/+build/
7916060/+files/chromium-codecs-ffmpeg-extra_45.0.2454.85-0ubuntu0.15.04.1.1181
_armhf.deb
```

Command 3:
```
sudo dpkg -i
chromium-codecs-ffmpeg-extra_45.0.2454.85–0ubuntu0.15.04.1.1181_armhf.deb
chromium-browser_45.0.2454.85–0ubuntu0.15.04.1.1181_armhf.deb
sudo apt-get install -f
```

Command 4:
```
sudo dpkg -i
chromium-codecs-ffmpeg-extra_45.0.2454.85–0ubuntu0.15.04.1.1181_armhf.deb
chromium-browser_45.0.2454.85–0ubuntu0.15.04.1.1181_armhf.deb
```

2. Run the following commands to install autostart software:
```
sudo apt-get update
sudo apt-get install unclutter
sudo apt-get install xdotool
```

3. Create the following files to get Chromium to autostart on startup:
```
/home/pi/start_chromium.sh
Contents:
Line 1: /bin/sleep 20
Line 2: sudo -u pi chromium-browser --kiosk --incognito --disable-web-security
        --user-data-dir --noerrdialogs --disable-infobars
        --disable-session-crashed-bubble http://localhost:5000/homepage.html &
```
```
/home/pi/.config/lxsession/LXDE-pi/autostart
Add the following lines:
Line 1: @xset s off
Line 2: @xset s noblank
Line 3: @xset -dpms
Line 4: @unclutter -idle 5 -root
Line 5: @/home/pi/start_URLrefresh.sh
Line 6: @/home/pi/start_chromium.sh
Comment out the following line by adding a # in front of it:
Line 7: @xscreensaver -no-splash
```

4. Run the following commands in the `/home/pi/` directory.

```
sudo chmod 755 start_chromium.sh
sudo chmod +x start_chromium.sh
```

5. Change the working directory to `/home/pi/Desktop` and clone the VandyVanDisplay repository:
```
git clone https://github.com/lewanthony/VandyVanDisplay.git
```

6. Replace `"http://mbus.doublemap.com/map/kiosk"` in Line 13 in VandyVanDisplay/public/homepage.html with a link to Vanderbilt's new website

7. Change the working directory to
```
/home/pi/Desktop/VandyVanDisplay/Dropbox-Uploader
```

8. Run ./dropbox_uploader.sh and follow the instructions to setup Dropbox. Dropbox email is vandystop17@gmail.com. Ask Lt. Jon-Michael McDaniel for the password.

9. Create an empty folder called `/home/pi/tmp`

10. Run the following command: `sudo crontab -e`

   Line 1:
```
@reboot sleep 3 && rm /home/pi/Desktop/VandyVanDisplay/public/images/* &
```

   Line 2:
```
@reboot sleep 8 &&
/home/pi/Desktop/VandyVanDisplay/Dropbox-Uploader/dropbox_uploader.sh -k -f
/home/pi/.dropbox_uploader download images
/home/pi/Desktop/VandyVanDisplay/public/ &
```

   Line 3:
```
@reboot sleep 15 && /usr/bin/node /home/pi/Desktop/VandyVanDisplay/index.js &
```

   Line 4:
   0 2 * * * /sbin/shutdown -r

11. Add the following line to `/boot/config.txt` to rotate the display:
```
display_rotate=3
```

12. Reboot the system

13. To update the advertisements, simply upload them to vandystop17@gmail.com Dropbox. The display will update them automatically at 2:00 AM.