When the sensor package gets power:

1. The Linux OS will be the first thing to turn on and will run our startup script upon boot up.
2. The startup script will be placed at: /etc/init.d/startup.sh (The initialization directory is Linux flavor dependant)
3. The startup script will be made executable through the command chmod 777 /etc/init.d/startup.sh to give read, write, and execute permissions to the universe.

Notes:

This script will change depending on the flavor of Linux we choose to use.

Latest Debian builds require LSB compliant (provide, at least, the following actions: start, stop, restart, force-reload, and status)

A full init template file exists within at /etc/init.d/skeleton which can be used for clarity and ease of use

The basic outline of the script Script:

#!/bin/bash

# WatchDog will start all the other processes

# If WatchDog cores, the script will sleep 60 seconds and then restart all processes

while [ 1 ]; do

./CameraController &

./ImageProcessor &

./WatchDog

sleep 60

done

The Spacecraft will be responsible for starting processes that exist on the Zed Board, such as S/C Comms and GNC. \*\* Process location is not finalized and my change based on hardware constraints. Important thing to note is that S/C will start processes in Zed Board and startup script will start processes on \*\*