

10/25/16

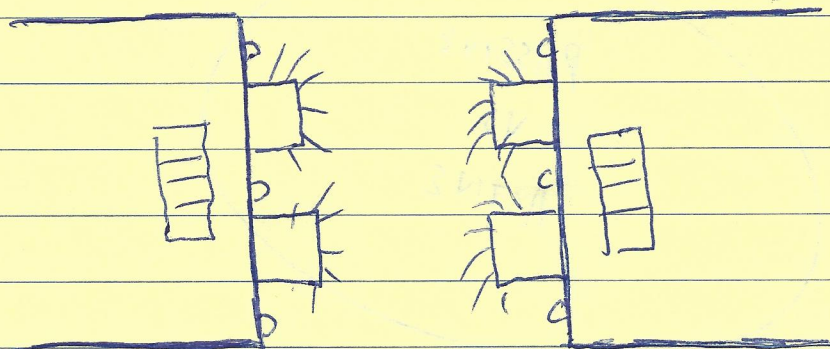
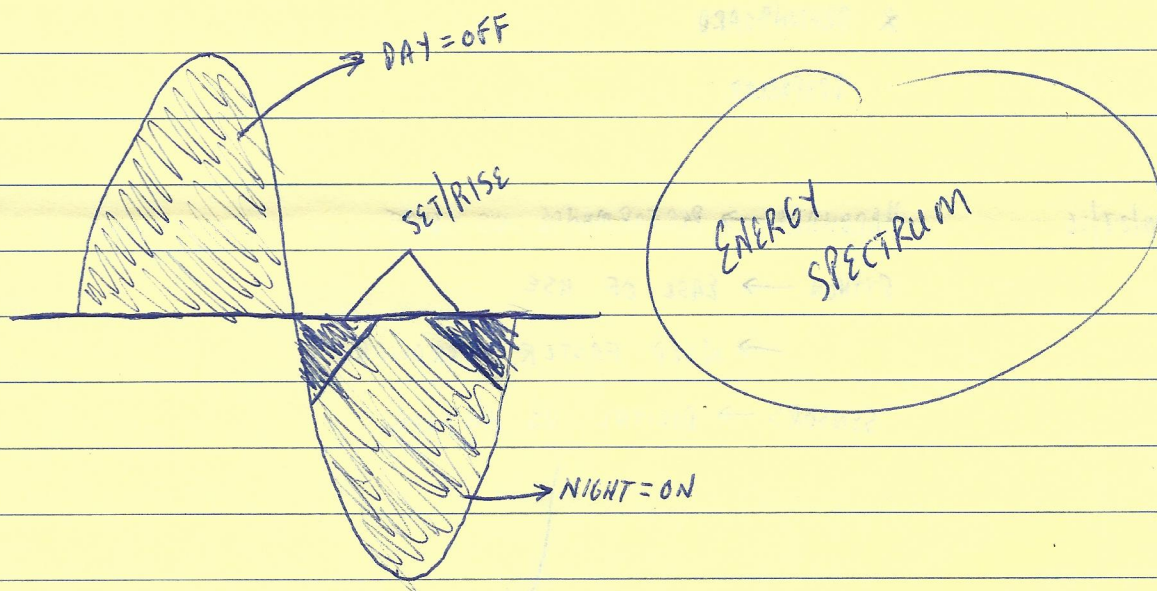
SENIOR DESIGN PROJECT

→ AUTOMATIC SOLAR POWERED LED SECURITY SYSTEM DESIGNED TO COLLECT ENOUGH ENERGY DURING THE DAYLIGHT TO POWER A SERIES OF LEDS DURING THE NIGHTTIME

→ IF LED GOES OUT OR SYSTEM DOES NOT HAVE ENOUGH ENERGY, TAKE FROM ONE OF THE OTHER BEACONS

→ SECURITY SYSTEM

↳ MOTION SENSORS TO DETECT MOVEMENT AND THUS BRIGHTENING LEDS AND NOTIFY SECURITY (MESSAGE!)



PRELIMINARY LAYOUT

10/25/16

~~NO LIGHT?~~ → SEND HELP! → ~~NIGHT SECURITY SYSTEM~~

VISIBLE LIGHT COMMUNICATION

~~POWER SAVING MODE~~ → ~~EXTEND LIFETIME~~ → ~~LOWEST SAFE TRAVEL~~

~~CRIMINAL SECURITY~~

INCLEMENT WEATHER SECURITY

~~MOTION DETECTION~~ → ~~DIM LIGHTING~~ ~~BRIGHTENING UPON~~ ~~MOVEMENT~~

\* SOLAR COLLECTION

\* PASSIVE

ACTIVE

\* DRAGONBOARD

PROPELLOR

10/27/16

HARDWARE → PERFORMANCE VS COST

PYTHON → EASE OF USE

→ NEED FASTER HARDWARE

SENSORS → DIGITAL VS ANALOG

PASSIVE  
VS  
ACTIVE