**Requirements**

1. Device should receive signals based on light
2. Board should be able to decipher Morse code
3. A user should be able to know what another device is emitting
4. Morse code translation should display on LCD screen for easy reading

“SOS”

1. Software should run on an inexpensive microcontroller
   1. Arduino
   2. Texas Instrument
   3. Any low cost microcontroller
2. Device shall have button to reset LCD feedback
3. Code shall be adaptable to other input devices
   1. Phototransistor
   2. IR receiver
4. Shall be able to use low amounts of power.
5. Shall have test Morse code emitter.