Optical Sensor Array Top Level

Andrew Ho, Feb. 28, 2012

Boat Beacon

- Power from boat
- Sound Microcontroller
- Infrared LED Array
- Flashing Light To Shore Station

Shore Station x 2

- Shore Power
- 4x diode inputs to calculation and control loop in AZ/EL microcontroller
- AZ/EL angle positions from microcontroller
- Calibration, Maintenance, & other modes from laptop
- Azimuth Angle and Elevation Angle to X/Y position to laptop

- Light From Beacon
- High Pass Light Filter & Optics
- Quad Photodiode Array
- Analog Electrical Filters and Amplifiers
- AC to DC conversion