

Dark Optics, 1/12/2013

Team LIGO: Jennifer Clark, Lise Driggers, Tina Roper

Problem Definition

- Image enhancement used to merge photos from low light to overexposure in order to enhance visibility
- Implementation by June 2013
- C programming language; shell scripting; Jenne Driggers, graduate student attending Cal Tech

Solution Specifications

- Using shell scripting, C programming, and an optics library to analyze photos
- UNIX command line operation

Competitive Analysis

- Proprietary program to be used exclusively by the Cal Tech LIGO program
- No comparable product on the market

Potential Applications

- Monitoring equipment in a low-light environment
- Specifically designed for one customer's needs

Future Improvement Ideas

- Allow streaming videos
- Multiple platforms
- Graphic user interface

