By:
Four anonymous students from D-Lab: Development
Three anonymous students from D-Lab: ICT
Arusha: 4-6 days

- Educational activities for afterschool program serving HIV/AIDS affected children
- Community mapping in the slums
Monduli: 4 days

Educational Improvements and Analysis

• **Purpose:**
  • To improve the current quality of education through applicable hands-on activities and curriculum improvements
  • To gather information about the infrastructural and community differences regarding education in various communities

• **To do:**
  • Appropriate curriculum changes and supplemental activities
  • Current success and problems in schools in different sectors
Moshi: 5 days

Electrical Generation

- Purpose:
  - People need to commute hours to recharge their cellphones.

- To do:
  - Make a circuit such as charge-pump/buck-boost converters
  - Should be low-cost and portable
  - Should be as generic as possible
Moshi: 5 days

FM radio

• Purpose:
  • FM radio station to raise awareness about disability issues

• To do:
  • Research equipment availability, prices, and function
  • Acquire and set up equipment including a transmitter and an antenna
Leboni: 7 days

Rain water harvesting

- Purpose: More water would allow them to have 2 meals a day.
- To do: Find the right materials and tools

Fig. 1: Original school

Fig. 2: School with water Harvesting System
Leboni: 7 days

- **Maasai medicine**
  - **Purpose:**
    - Catalogue Maasai traditional medicines
    - Better understand Maasai health and beliefs of health
  - **To do:**
    - Collect samples of traditional medicines
    - Analyze in lab
    - Create catalogue
Leboni: 7 days

Milk preservation

• Purpose:
  • To preserve excess milk and/or create additional income generation

• To do:
  • Research preservation and processing strategies
  • Test several options
Karatu: 5 days

- Mwema
  - School for street children
  - Family integration workshops
- Computer lab