**Research Proposal**

Pip-Boy 3000:

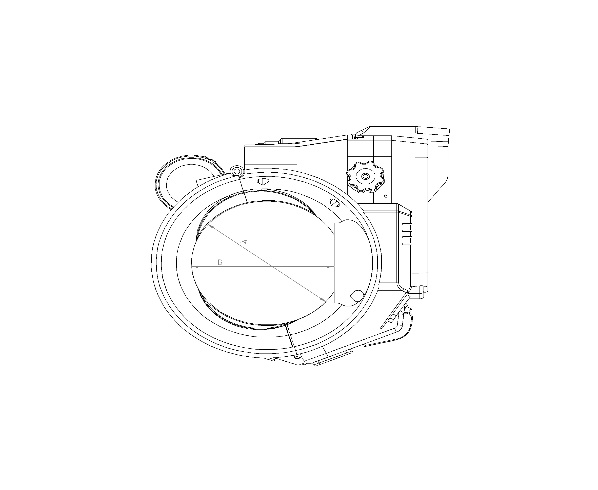
Making Life Fun, Data Collecting

Cory Lausch

**Abstract**

The Pip-boy 3000

**Background**



**Research Goals**

Milestone 1 - Research.

Milestone 2 - Get Pip-boy Printed.

Milestone 3 - Get Pip-boy up and running with base operating system.

Milestone 4 - Get Pip-boy with working map.

Milestone 5 - Working Geiger(Air Quality)

Milestone 6 – Status Effect through heart rate monitor.

**Materials**

Bill of materials as follows:

-3D printer source files from dragonator.

-4D Systems 4.3 inch touch display (datasheet) (programmer).

-8 gig micro SD card.

-Adafruit PowerBoost 500 charger/booster (datasheet).

-Lipo 2500mAh 3.7v battery.

-USB breakout board.

-10 Position rotary switch.

-3 orange LED's (Radio Shack).

-1 red LED (Radio Shack).

-1-10k resistor (Radio Shack).

-2-220ohm resistors (Radio Shack).