Team 11
Lazer-Ops

Members

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Outline

Deliverables
Accomplishments
Major Hurdles
Design Decisions
Current Status
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Pricing
Deliverables

- 2 Laser Guns
- 2 Receiver Vests
- Central Communication Hub
- Android Statistics Application
Accomplishments

HUB/APP:
- UDP communication between Raspberry Pi and Android

VEST/GUN
- Breadboard prototype Decode and process
Major Hurdles

- Wifi Communication
  - UDP Communication
- IR communication
  - Decode
  - Encode

https://www.breathalyzervending.com/products/boozelator-wifi-upgrade-kit/
Design Decisions

TRANSPARENCY

- Wi-Fi integration
- PIC Vs. Arduino
- One microcontroller
- UDP Vs. TCP


http://www.liquidware.com/shop/show/WFS/Wifly-Shield
Current Status

- Application
  - Message handling
- Central Hub
  - Data storage
- Receiver Vest
  - Wi-Fi
- Laser Gun
  - IR encoding
Budget Update

- Requested: $400
- Approximate Spent: $140
- Approximate Budget Remaining: $260
- No Budget Change Requested
Product Price

- Sales Volume: 100,000 Units
- Unit Price: $70
  - Includes: 2 guns, 2 vests, 1 central hub.
Questions...?