# Team Fire - Project Presentation 

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## Project Summary

Mines Action Canada Needs:

- A VR environment to show how civilians would adapt and protect themselves against autonomous weapons.

1. Design Criteria:

- Emotionally

Provoking

- User experience and interaction
- Realistic and informative

2. Constraints:

- Length(max.60s)
- No gore or violence
- Urgent sense of concern, not fear



## Researich:

## Why stop Autonomous Weapons?

- Digital dehumanization
- Collateral damage to entire cities
- Will cause inhumane injuries on soldiers and civilians if hacked.
- Discrimination towards race and gender



## Examples of Existing Autonomous Weapons:

Landmines:

- Use sensory systems
- Uses pressure plates and motion sensors
Heat Seeking Missiles:
- Use thermal sensors to track targets


## Our Main Source:

## Bandimaraing

## Perspective: Paradise

VR showing the 1952 test detonation of the first hydrogen bomb and the effect it had at Enewetak/Bikini Atoll.

Technical:

- Requires a 64-bit processor and operating system
- Interactable: The user can move the camera 360 degrees.


## User:

- Made users think how insane Nuclear weapons are.
- Some of the videos can be hard on the eyes.
- Too long, 30 minutes long.

PERSPECTIVES:


## Bancimarixing



## Ifiter Solitiary

A VR experience showcasing the long lasting effects solitary confinement can have on an individual's psychological wellbeing.

Technical:

- Any popular OS.
- The user can move the camera around 360 degrees.

User:

- The video showcases that solitary confinement is an inhumane punishment.
- The video features disturbing imagery. (Not PG).


## Problem Statement:

"Mines Action Canada needs a short, simple, and immersive VR video environment to persuade decision makers showing the ethical concerns that automated robot killers will provoke".



## Sulisurstems:



# Our Final 3 Goncept Designs 



Goncent 1
The simplest design with the most amount of restrictions.


Goncept 2
The most amount of detail for realism and for emotional value. too much detail, but is not feasible to complete


A balance between each subsystem. The environment is immersive and detailed while possible to complete.

## Alient interview feeilhack

- Positive feedback on how each design concept is based on varying levels of feasibility
- Suggested concept 3 (satisfies the design criteria while possible to complete)

- Feedback on audio:
- "The users can be sensitive to violent sounds (bombs, gunshots), so we should be able to remove sound on command if needed."


## Design

Detailed Goncept


Project Plan:

1. List of Components
2. Create a Budget
3. List of Equipment


Equipment:

- Unity
- Headphones
- VR headset
- Controllers




## The Prototypes

## Prototype I:

## Added:

- Our most important assets
- Sandbags, posters, boarded windows, buildings, sky, roads, newspapers, and fire
- Tested that all assets work together
ool Pitch Presentation Olient Feedhack:

- What is L.A.W.S?
- Changed posters to accommodate for those who do not know the L.A.W.S acronym

Before:


After:


UNAHMABHA DANGHROUS UNEAFA

[^0]Www.noAutonomouswraponsicor

## Prototype 2:

## Added:

- New streets and sidewalks
- Masks


Added:

- Background Buildings (realistic scenery)
- Barricades
- More newspapers and boarded windows
- Edited posters based on client feedback
- Tarps/Tents

Prototyie 2:

## 4. Audio: siren and

 AmIOUNEEMEAt
## User Feedihatk

## Prototype I:

- "Confused because they do not know how they got to the situation they are in" (Need more context)
- "The posters and newspapers caused fear and concern"
- "Makes me feel uneasy"


## Prototype II:

- "It's very red, the tones of the background give a very chaotic vibe and it shows a state of alarm."
- "The message being conveyed is very easy to understand. It is a very interactive environment as well" (the functional newspaper).
- "The audio makes the environment more realistic, because you aren't just seeing the chaos but also hearing it."



## $\ddot{O} 04$

Gonclusion

## What we've Leannei!!

$\star$ Rotate tasks between members
$\star$ Have a project plan (and update it every week)

* We did not need to spend money (requires more time, but free assets are available)
$\star$ Giving/receiving constructive feedback is a GOOD thing


## Future Plans:

## 1. Prototype II:

1. Complete the audio: adding bomb sounds in distance
2. The code: Steam VR
3. Testing: Test with VR headset during lab
4. Making sure some items are interactable(newspapers, masks, etc.)
5. More user feedback

## 2. Design Day

1. Create small project pitch presentation for Mines Action Canada
2. Show off our project


## 3. Final Deliverables

1. Completing our last deliverables which sums up the design process!


## Thanks :

Questions? ;)


[^0]:    

