



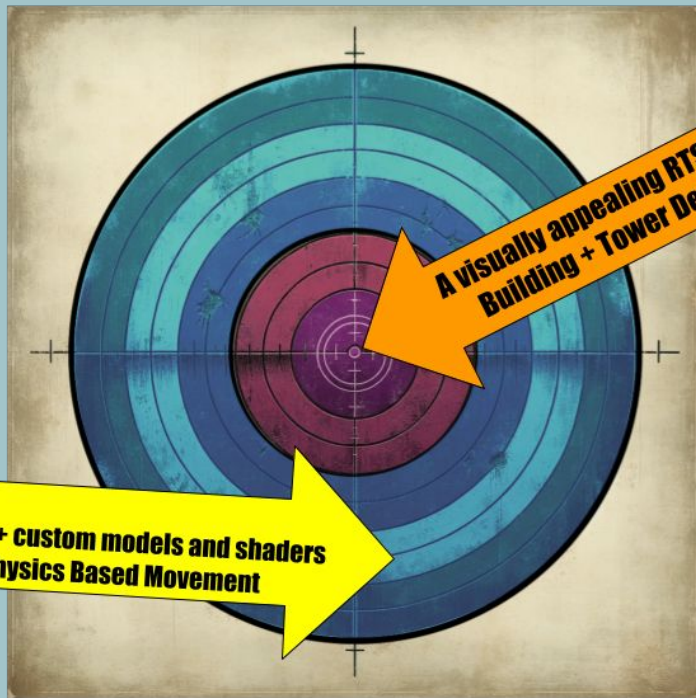
Alpha Release:

**Doomsday:
Underground Uprise**

Team: Tri-Hard

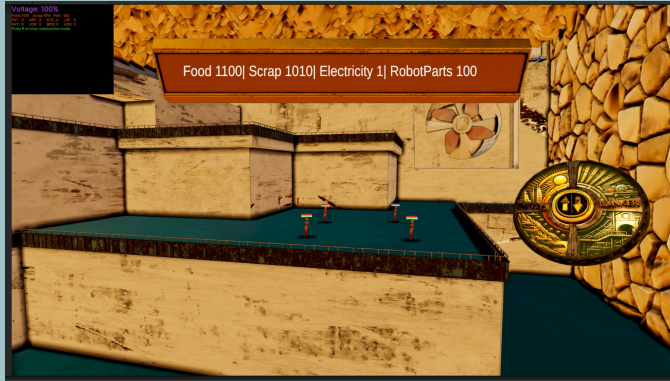
- Matija Jajcinovic
- Haorui Tan
- Hongbo Chen

Our Goals

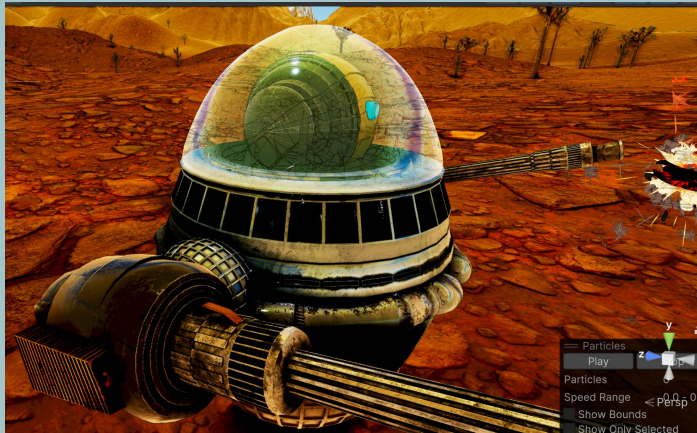


**A visually appealing RTS + City
Building + Tower Defense**

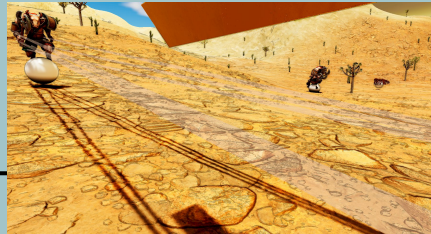
**Using HDRP + custom models and shaders
+ ML Physics Based Movement**



- # Results
- 3 Layer like suggested done
 - controllable unit
 - build system for both bunker and surface base

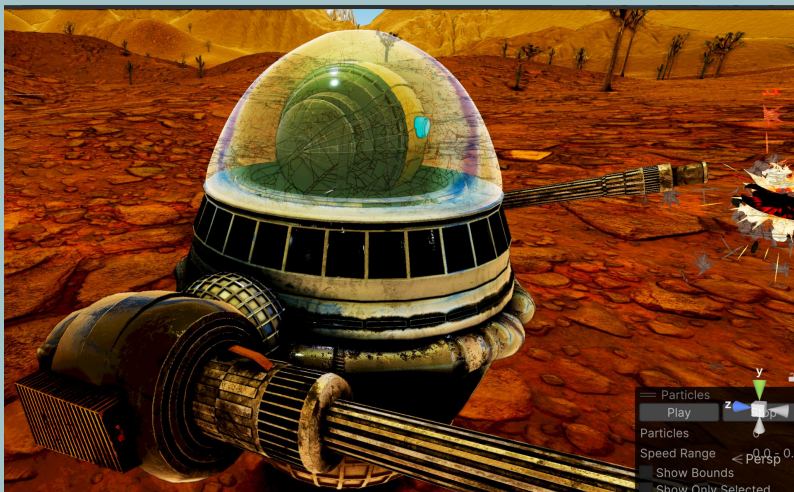


- detailed visuals
- ML animation



Combat Bot

- no fixed animation but PID + force based logic and gun aiming
- movement combination of Position PID and Navmesh
- custom modell
- abstract classes to easily implement more guns (only one due to modelling time constraints)



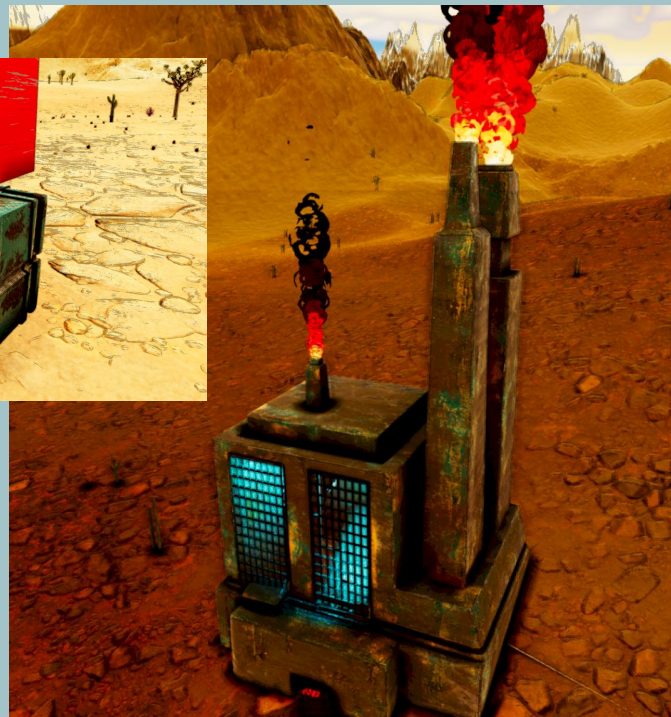
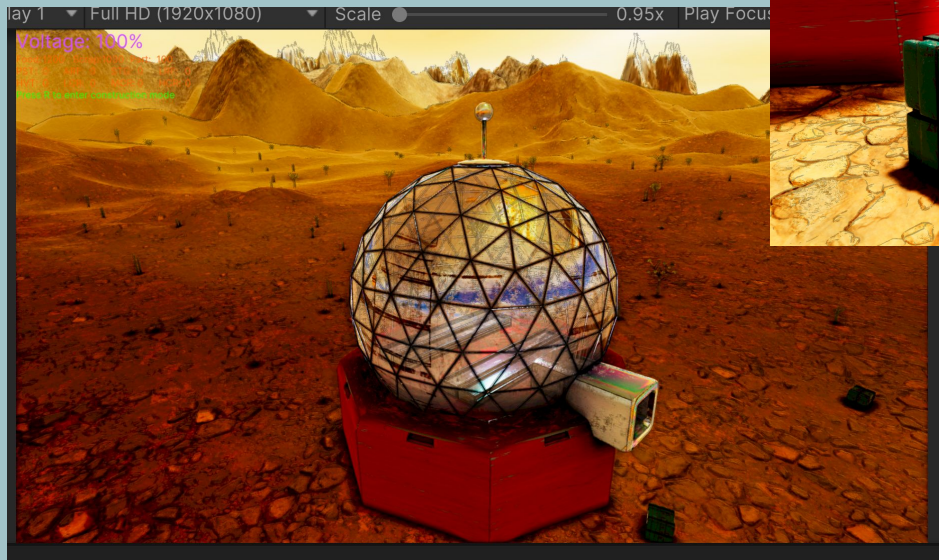
Worker Robot

- ML trained
- goes from A to B
- lot of work done to make it work

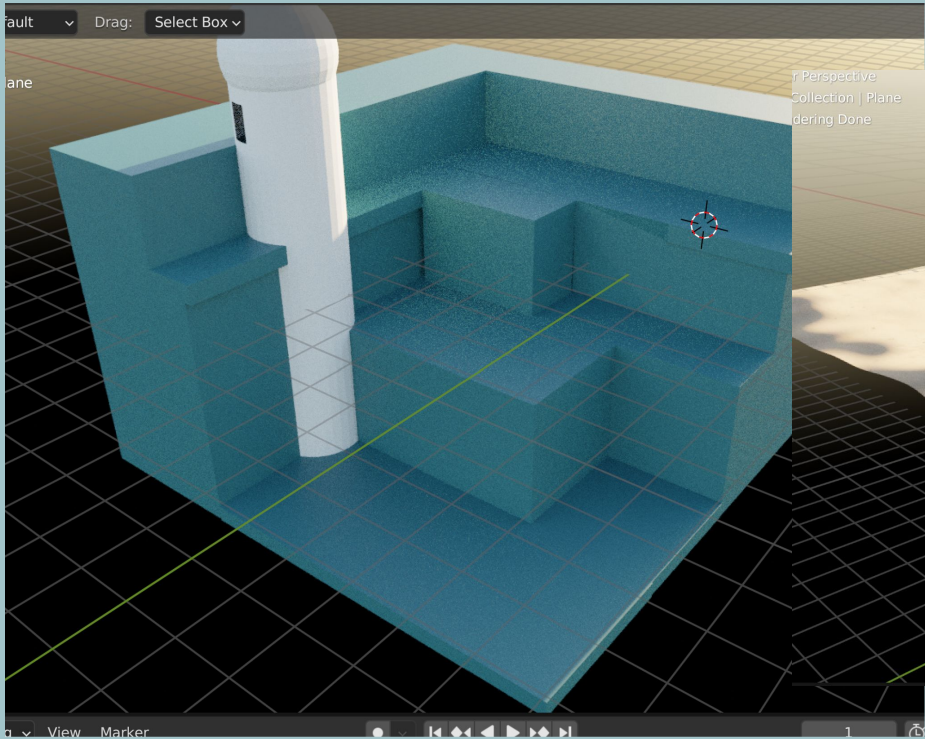


Crop Farm and Factory

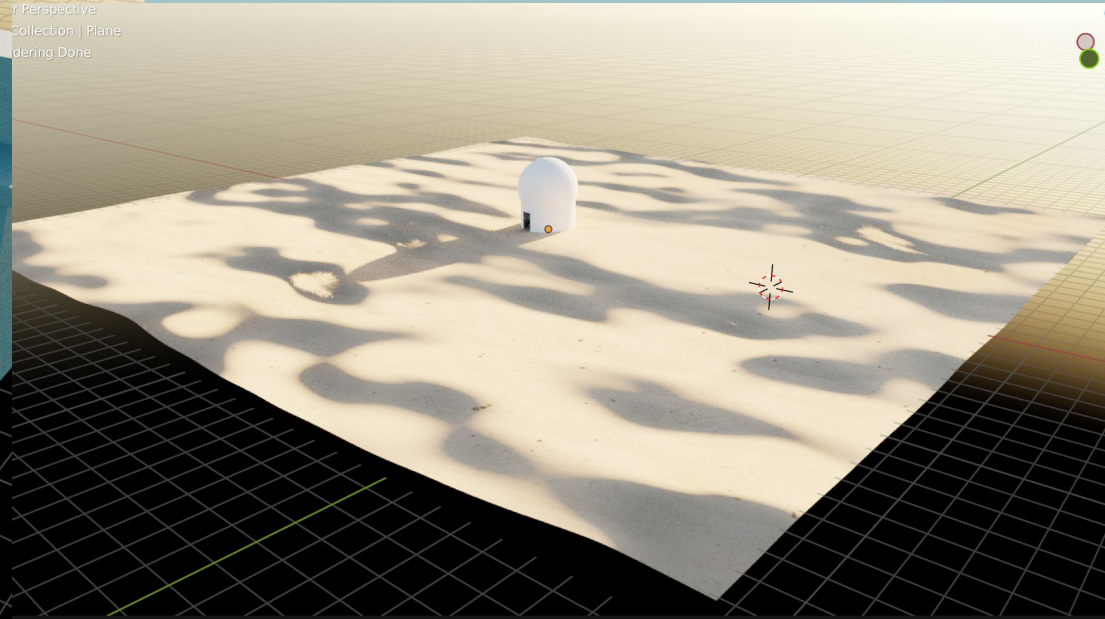
- Outputs every x seconds a box
- will be picked up by Worker
- Worker Spawns with building



First Drafts - Switch between views



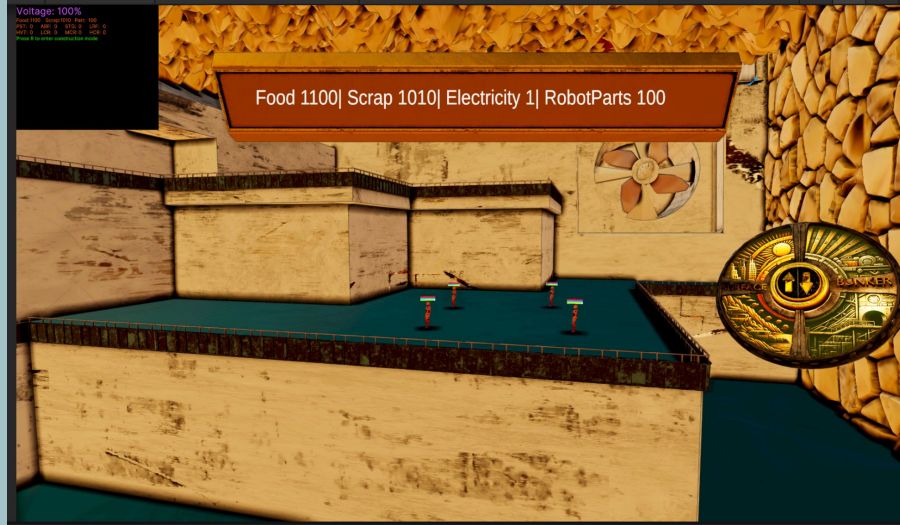
Perspective
Collection | Plane
rendering Done



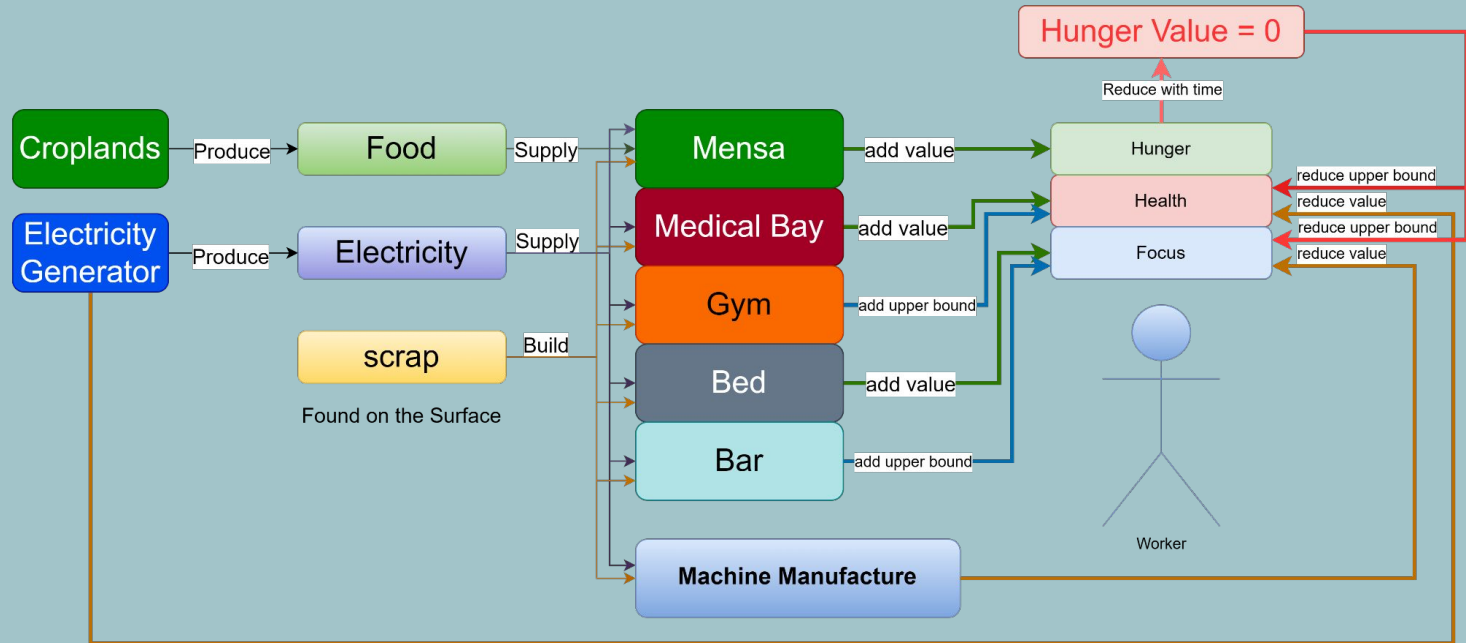
View Marker

1

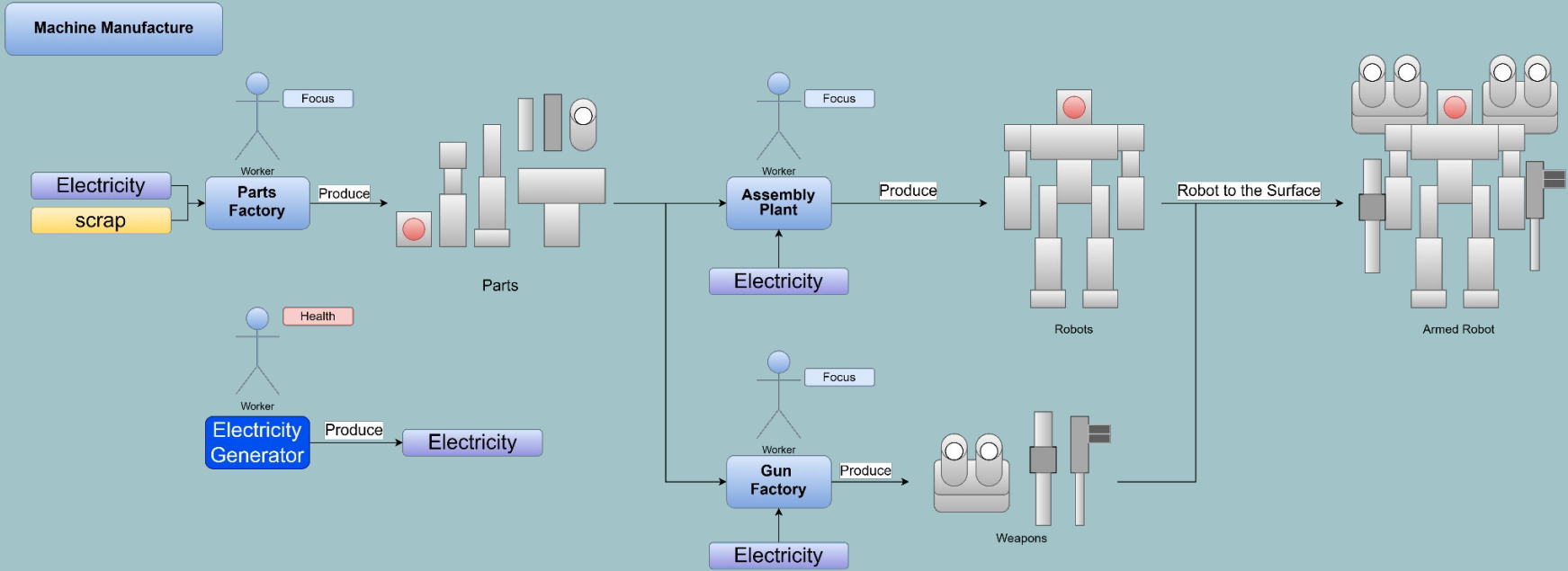
Terrain and bunker



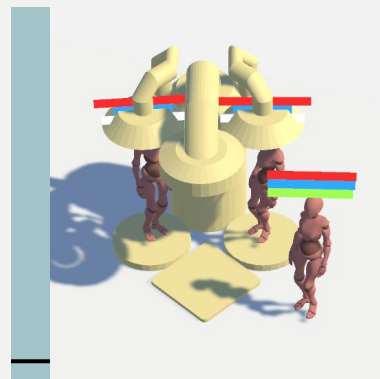
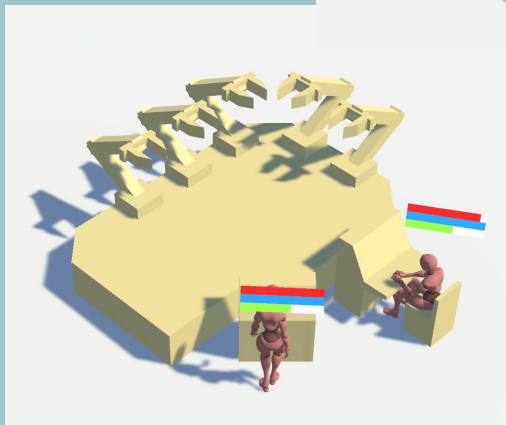
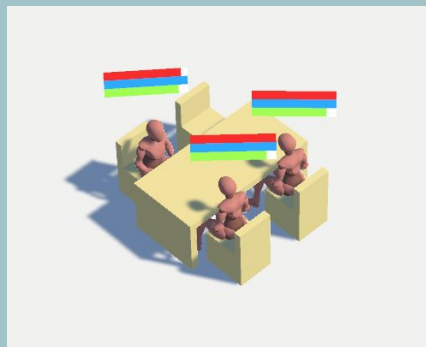
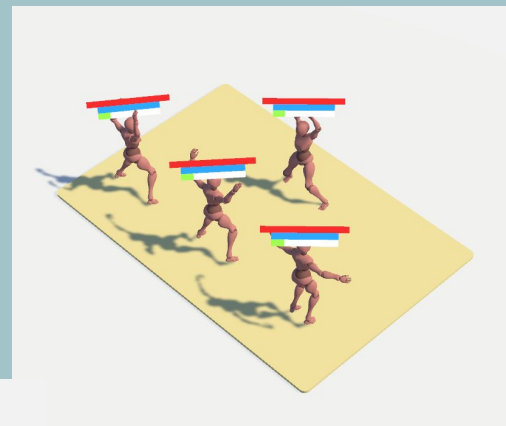
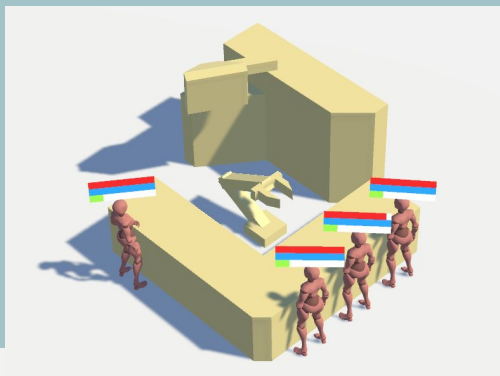
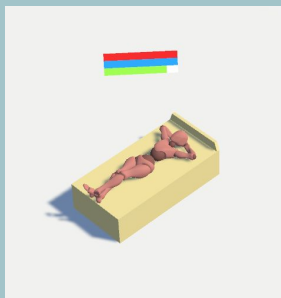
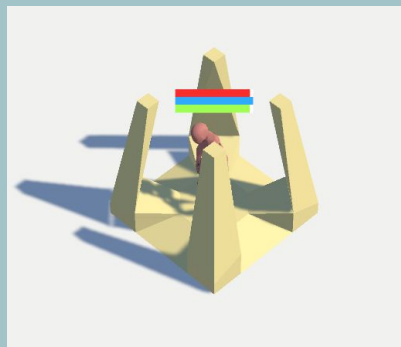
Buildings effects and People's status



Equipments Produce Process

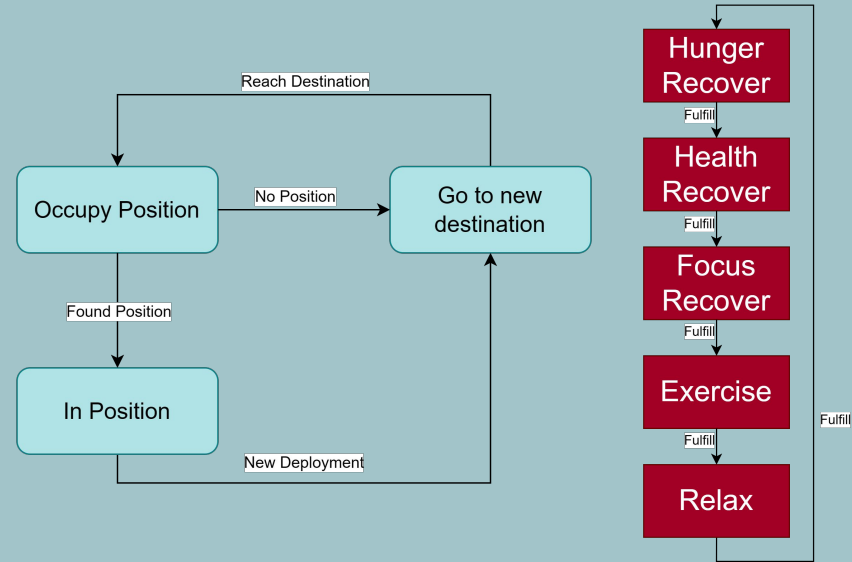


Building Modeling and interact animation



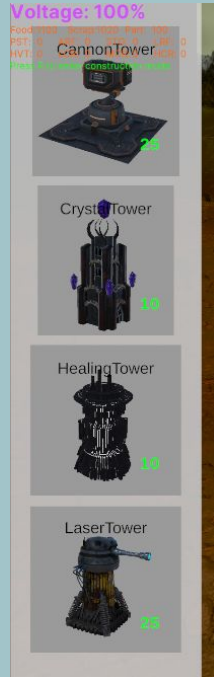
Basement Operation Highlights

1. Simulating the authentic physiological state of people living in a restricted space
2. smart deployment logic
3. automatic self-supply logic

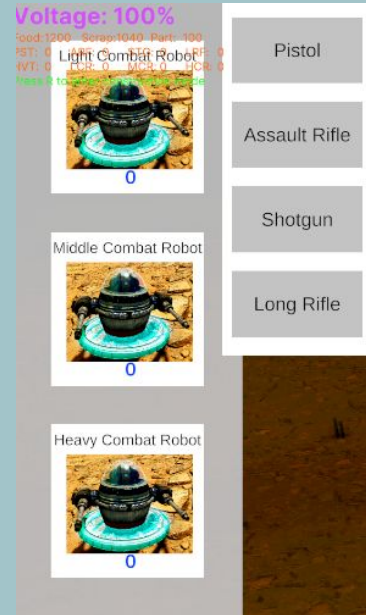


-Surface construction table

- Tab + 1: Tower -Tab + 2 : Farm



-Tab + 3 : Robot



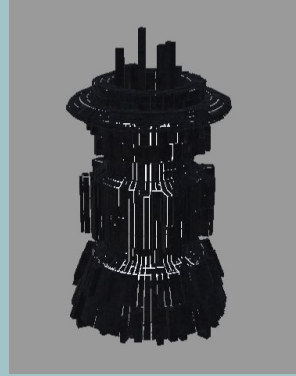
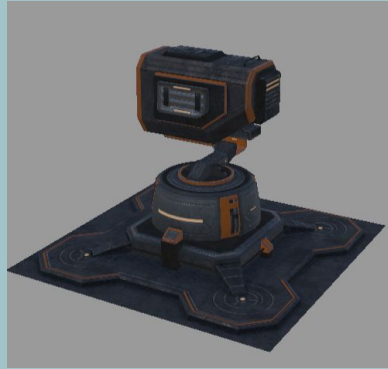
-Tower:

-Laser tower

-Cannon tower

-Healing Tower

-Crystal Tower



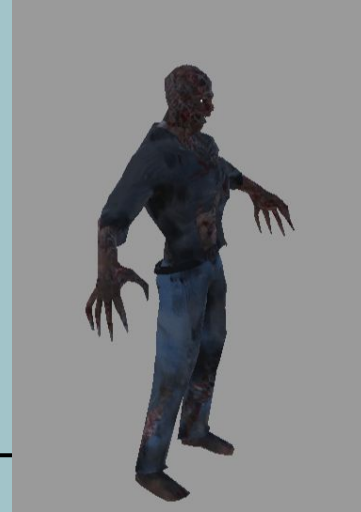
-Enemy

-Barbarian

-Bug

-Spider

-Zombie



-Wave System:



RemainderEnemy: 00

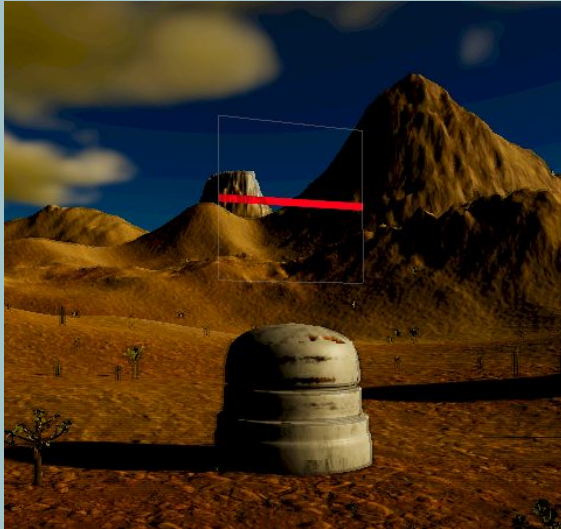
Game starts -> 2min countdown to the first wave:
Quantity on each side: (same quantity on left and right)
Spider: 1 Zombie: 2 Barbarian: 1 Beholder: 2

->After all monsters are killed->Countdown 2 minutes for the second wave:
Quantity on each side: (same quantity on left and right)
Spider: 2 Zombie: 3 Barbarian: 2 Beholder: 3

->After all monsters are killed->Countdown 2 minutes for the third wave:
Quantity on each side: (same quantity on left and right)
Spider: 3 Zombie: 4 Barbarian: 3 Beholder: 4

(Infinite loop, the number of each monster is +1 each time)

-Win loss Condition (If health go
0 => Game over)





nik vovchik

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STANK A
ATPONER



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**THANK YOU
FOR YOUR
ATTENTION!**

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DOR A GAR TO
YOUR ATTENTION

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