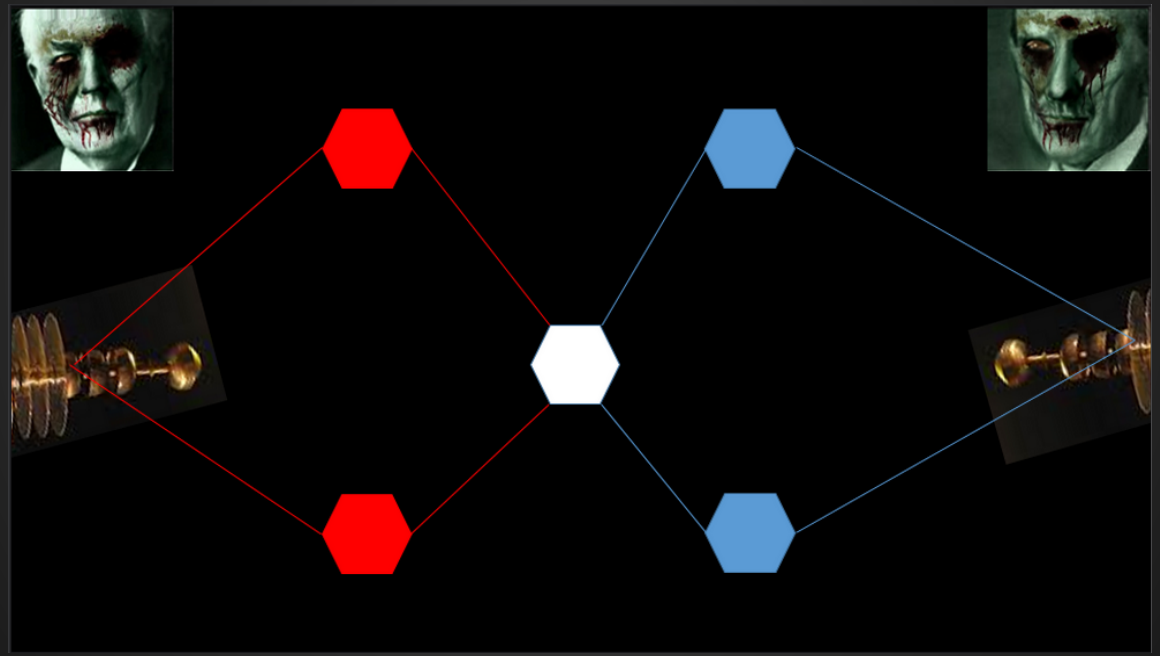
Electric Shepherds Presents:

# AC VS DC

## The War of Currents



Erick House, Gary Mixson, Brandan Haertel, Aaron Whiting

# World & Narrative

- Who:Nikola Tesla & Thomas Edison
- What:Electric Minions
- Where:Scale Model of the “Town of Tomorrow”
- Why:FOR SCIENCE!

# Audience

Who:Competitive Strategy Gamers

Fans of:

- RTS
- Tower Defence
- Turn Based Strategy

# Similar to...

# Gameplay Innovations

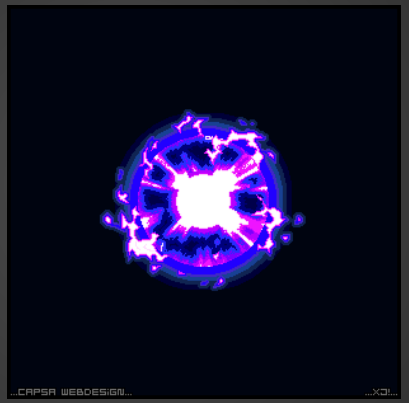
Insect Arena Innovations

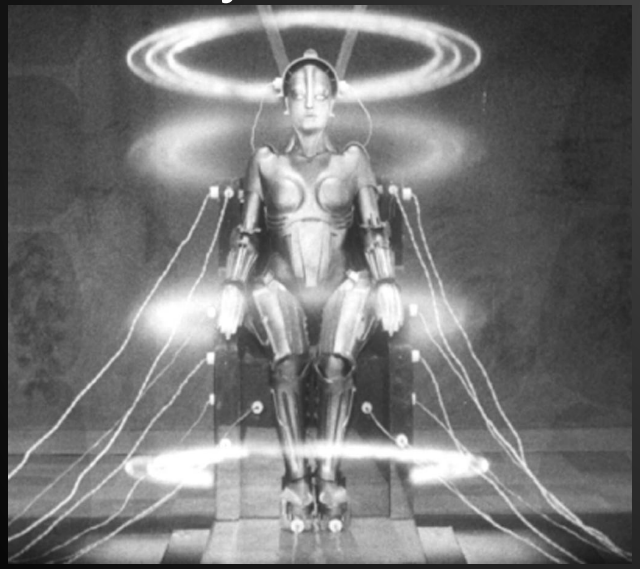
- Voltage Meter
- **Multiplayer Gameplay**
- Units colliding in lanes between structures
- Tesla & Edison have powers that can be to destroy and block enemy units(costs voltage)
- When voltage is at 100% deathray zaps opposing player.

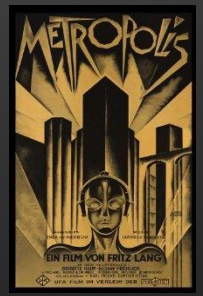
# Look & Feel:Art Style

**Good News Everyone!**

- Metropolis style art
- Top down view
- Early 1900’s







# Look & Feel:Audio & Sounds

## Assets

- Background, Menu, Win, Kill, Collision, Spawn...

## Inspiration

- 1900’s music, electricity, tesla coils.

## Source

- Sound Engineer With a Professional Grade Studio

# Game Play:Win\Loss

Win\loss conditions

- Kill a watt: Charge voltage meter to 100% zapping the opponent
- Annihilation: Take over all structures

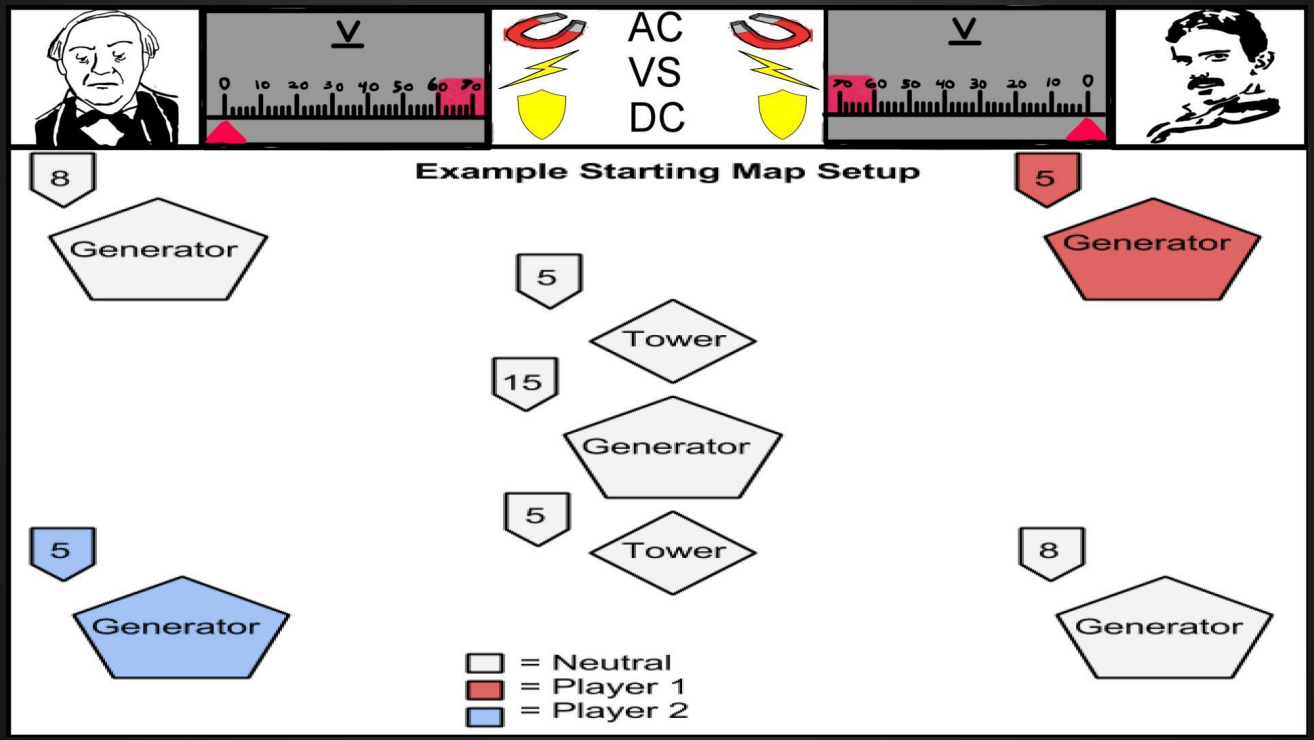
# Game Play:Structure Types & Powers

- Generator: Generates units & Power
- Tower: Shoots at nearby units

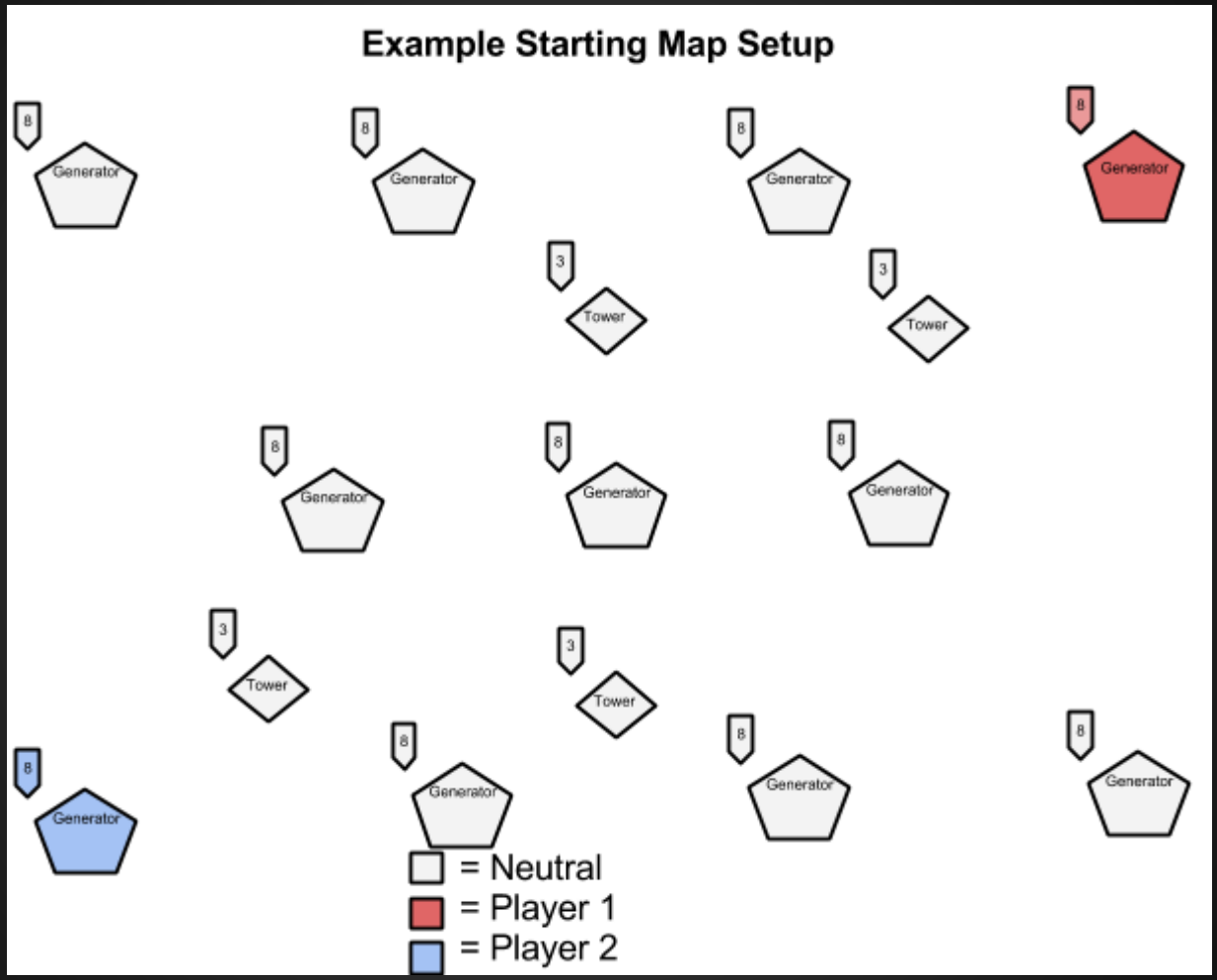
Scientist Powers

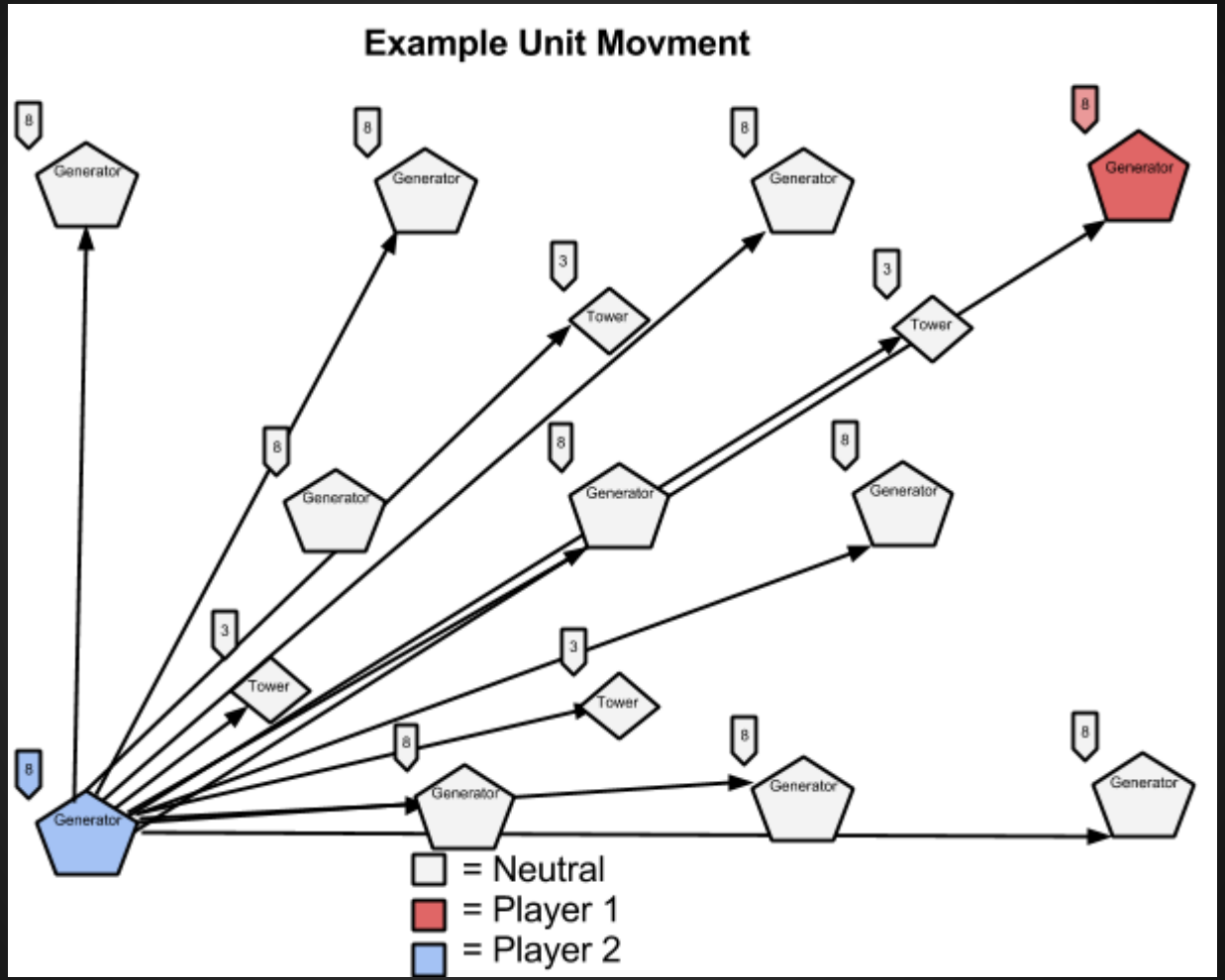
- Electromagnet(Damage)
- Electro Shield(Shield)
- Speed boost(Speed)

# Game UI


V
0 10 20 30 40 50 60 70
AC
VS
DC
V
70 60 50 40 30 20 10 0
Example Starting Map Setup
8
Generator
5
Generator
5
Tower
15
Generator
5
Tower
5
Generator
8
Generator
= Neutral
= Player 1
= Player 2

# Example Starting Map Setup




Example Unit Movment
8
Generator
3
Tower
= Neutral
= Player 1
= Player 2

# Technical Challenges

Networking

- Authoritative/Non Server
- Synchronization vs RPC’s

AI

- Pathfinding
- Potential Fields

Performance

- How many units on the screen

# Where we are now

- Created basic GUI
- Functioning authoritative server
- Moving to and from towers
- Capturing towers
- Unit collision
- Creation of art assets
- Creation of audio assets

# Management Systems

**Backlog**

https://docs.google.com/a/uw.edu/spreadsheets/d/1w57z_Scz1k0h7loGgA9pMXSJ5pLhvYYwcIFtBzNPYRI/edit#gid=0

Status Reports

https://docs.google.com/a/uw.edu/forms/d/10iGbynq_bJ7gA5idPsK6_wayW0PbcuvI5uQFvXzlcVI/edit#

Art Assets

https://docs.google.com/spreadsheets/d/1CfCgiW2XaNJSIP2VDznomejUjR31m5mZYUepFIH_OX8/edit?usp=sharing

Audio Assets

https://docs.google.com/a/uw.edu/spreadsheets/d/1ieNfn5WQ0tP5hi99-qJ5amvEopw1_5pi_1jgtJjTU6w/edit#gid=0

Kerika

https://kerika.com/m/Oq26

# Thank you!!

Question?