



Aerial vision
for ground
troops

and other projects

Who we are

- 2 + 1 part time software developers
- 1 graphics designer
- Headquarters left behind in Kyiv 

Projects before the war

- App@Hololens for teaching Massage
- App with AR translation overlay/audio for printed books
- App@Hololens - RDP/SSH terminal

Current project

- Aerial vision for ground troops using consumer hardware
 - DJI Mavic Air 2s - \$700
 - DJI Mavic Advanced Industrial - *portable aerial thermo imaging solution* \$6000
 - MS Hololens 2 mounted on the helmet - *could be replaced by smartphone client in majority of situation* \$3000

Roadmap

1. Oracle

A. iPhone Ground Station app

- I. connects to DJI remote over DJI SDK
- II. Connects to system's server
- III. Broadcasts repacked video from drone via 4G connection
- IV. Pilots drone according to the instruction from the server

B. iPhone/Hololens 2 Fighter app and a webpage

- I. Displays received from broadcast Video from camera of drone
- II. Displays GPS coordinates of Drone and of the Fighter

C. System's server

- I. Supporting multiple concurrent connections of the iPhone Ground Station apps
- II. Efficiently and scalable records multiple drone camera streams

D. Hololens/Helmet mount 3d print

2. Raven

A. iPhone Ground Station app

B. iPhone/Hololens 2 Fighter app

- I. Shows GPS markers of recognized targets received from the System's server

C. System's server

- I. CV/DeepML (trained YOLO model) for recognition of humans, vehicles in aerial footage
- II. Tracking of targets

3. Tempest

1. On-board 4G/Starlink connectivity for DJI Mavic

2. Custom firmware for DJI Mavic

3. System's Server on Matrice 300 RTK

1. Direct control of DJI Mavic's

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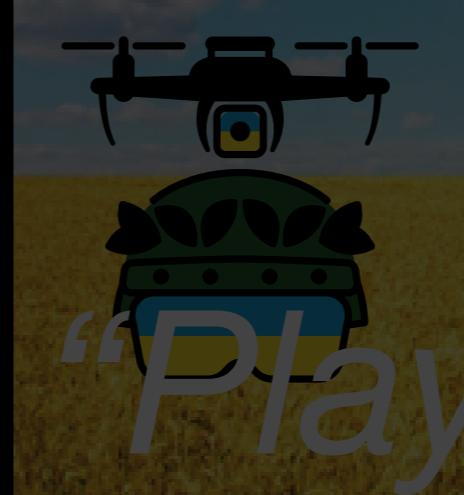
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D. Hololens/Helmet mount 3d print

DJI Mavic 2 Enterprise Advanced
MS HoloLens 2
DJI Mavic 2/3/Air
iPhone XR

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Press “Play”



CV/ML Scientist
Mobile Software Engineer
Industrial Designer

zirukraine+jobs@gmail.com

What do we need

- Drones/Headsets
- New hires
 - ML/CV Specialist
 - Robotics engineer
- HQs in Ukraine

<u>\$ 341 k</u>	<u>Cost of first stage</u>
<u>\$ 61 k</u>	<u>Starting cost</u>
<u>\$ 47 k</u> 🤖	<u>Monthly Upkeep</u>
- 🤖	Software Generalist Hire
\$ 4 k 🖥	SW hardware kit
- 🤖	Unreal Engine Developer Hire
\$ 4 k 🖥	SW hardware kit
\$ 4 k 🤖	Robotics engineer Hire
\$ 4 k 🖥	SW hardware kit
\$ 1 k 🤖	ML/CV specialist Hire
\$ 4 k 🖥	SW hardware kit
\$ 26 k 🖥	Mac Pro maxed out
\$ 7 k ✈️	Mavic 2 Enterprise Advanced
\$ 2 k ✈️	Heisha D80 Drone Dock
\$ 5 k 🎉	MS Hololens 2 Industrial





ETH/USP T

Metamask