

A black and white illustration of a city street scene. In the foreground, a soldier wearing a helmet and carrying a rifle is looking through a handheld device, possibly a scope or binoculars. In the background, there are several multi-story buildings, some with signs like 'МАГАЗИН' (MAGAZIN). Two small, quadcopter-like drones are flying in the sky, each equipped with a camera or sensor. One drone is positioned above the buildings, while the other is lower, closer to the soldier.

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 thermal imaging solution* \$6000
 - MS Hololens 2 mounted on the helmet - *could be replaced by smartphone client in majority of situation* \$3000

As Russia moves to nationalize foreign companies exiting its market, the UK prepares to nationalize a major Russian natural gas supplier

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

Russia may not stop with Ukraine – NATO looks to its weakest link

Russia summons US ambassador, warns ties with Washington on verge of collapsing

Russia threatens Poland in lengthy letter days before Joe Biden's visit

Roadmap



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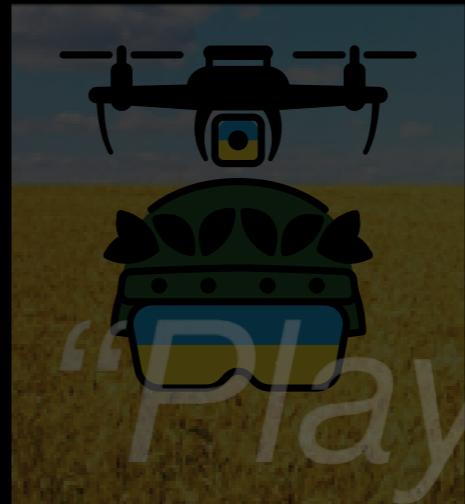
D. Hololens/Helmet mount 3d print

Roadmap - 1. Oracle

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 have

- Dedicated people
 - Software engineer generalist
 - Unreal Engine software engineer
 - Part time iOS developer
 - Graphics designer
 - Early technical prototypes
 - Users/testers in Ukraine

What do we need

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

https://docs.google.com/spreadsheets/d/1-NtKYwN4m6r7G4Tm98FI7RFcuJ5Ybfkj8-hZJ_KEkY/edit?usp=sharing



<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
<u>\$ 4 k</u>	SW hardware kit
-	Unreal Engine Developer Hire
<u>\$ 4 k</u>	SW hardware kit
<u>\$ 4 k</u>	Robotics engineer Hire
<u>\$ 4 k</u>	SW hardware kit
<u>\$ 1 k</u>	ML/CV specialist Hire
<u>\$ 4 k</u>	SW hardware kit
<u>\$ 26 k</u>	Mac Pro maxed out
<u>\$ 7 k</u>	Mavic 2 Enterprise Advanced
<u>\$ 2 k</u>	Heisha D80 Drone Dock
<u>\$ 5 k</u>	MS Hololens 2 Industrial

What are we working on

- Tech
 - Prototypes
- Finances
 - Private funding
 - *1 Investor acquired - get his money*
 - SBIR funding
- Human Resources
 - Find ML/CV specialist
- Operations
 - Drones
 - Office in Ukraine

Support refugees in Europe:



ETH/USDT

Metamask

