



MACHINE X



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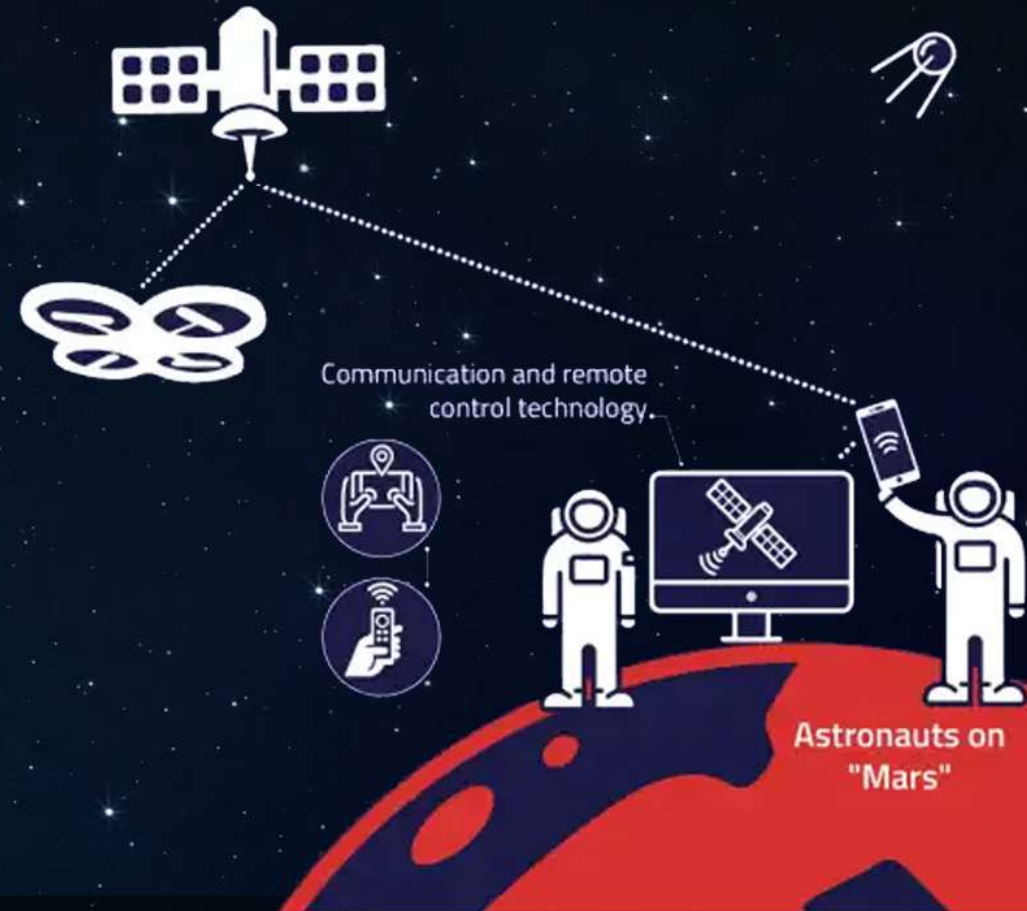


OLEKSANDR BOIKO
RESEARCH AND DEVELOPMENT

Transportation Challenge

Goal: Create a robotic device that can be remotely guided to deliver a payload to a specific location in the environment.

Aim: Transport a payload from an unknown location to a specific coordinates by utilising a remotely controlled transportation device.



JOURNEY

A photograph of an astronaut in a white spacesuit floating in space. The astronaut is positioned in the center-left of the frame, looking towards the camera. The background shows the curved horizon of the Earth with a bright sun or star in the upper right corner, creating a lens flare effect. The overall color palette is dominated by reds, oranges, and yellows, giving it a dramatic, sunset-like appearance.

- Getting familiar with the challenge requirements (e.g. available tools, tasks, goals etc.).
- Brainstorming for possible solutions.
- Trial and error method, checking every possible outcome.
- Trying and failing – then trying again!
- Our mentors have been great source of knowledge for us.

CONCEPT 1: DISCOVERY



DEVICE SETUP

1 CAMERA
1 LASER
1 SELFIE STICK

UNCERTAINTIES

STABILITY OF THE
SYSTEM

STICK HEIGHT

MEASUREMENT
ACCURACY

CONCEPT 2: DISCOVERY 3D



DEVICE SETUP

2 ACTION CAMERAS
1 HOLDER

UNCERTAINTIES

IMPLEMENTATION
COMPLEXITY

BIG DATA

HEAVY REAL-TIME
PROCESSING

CONCEPT 3: DISCOVERY X



DEVICE SETUP

- 1 ACTION CAMERA
- 1 CAMERA
- 2 LASERS
- 1 SELFIE STICK

UNCERTAINTIES

- STABILITY OF THE SYSTEM
- MAPPING COMPLEXITY

SETUP IMPROVEMENTS AND FUTURE POSSIBILITIES

- Stability of system is increased by reducing number of cameras and lasers and by proper weight distribution
- The device setup overall is simplified after testing
- Mapping system is adjusted due to results of testing
- Driver skills improved
- Rear View Camera

FINAL CONCEPT: DISCOVERY F



- One car
- One selfie stick
- One phone
- One laser
- Rear View Camera

WHAT IS NEXT?



Create a business model and start collaboration with Parcel delivery services and propose using machines as postman

THANK YOU FOR ATTENTION

