MakinaFleo

MF-TECH

Future solutions for Unmanned Vehicles and IoT Technologies.

info@makinafleo.com

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MF-TECH, we operate as a team focusing on unmanned vehicles and IoT technologies. Our goal is to shape the future by making society smarter, more efficient, and safer with technologies that define the future. We aim to make a difference with the solutions and values we offer. We are known for our passion for technology and our constant pursuit of innovation. Keeping a close eye on developments in unmanned vehicles and IoT, we produce solutions using the latest trends and cutting-edge technologies in these fields. As a team, we take pleasure in solving the most challenging problems and developing creative solutions. MF-TECH is open to any collaboration and sponsorship.

Below are some of the projects developed and to be developed at MF-Tech. The unmanned vehicles category consists of four areas (unmanned aerial, underwater, surface, and land vehicles); in IoT technologies, multiple specialized devices are being developed.

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Unmanned Aerial Vehicles: Devrim

Devrim is an unmanned aerial vehicle with a fixed-wing system; thanks to developing artificial intelligence algorithms, it will perform surveillance, exploration, target locking, and tracking tasks.

Technical Specifications

. Weight: 4kg
. Dimensions (l,w,h): 104.5x80x22.5 cm
. Control: Remote control (20km)
. Operating time: 1 hour
. Payload: 1kg
. Telemetry: Internet (infinite range)

Capabilities

. Target Locking
. Object Recognition
. Surveillance
. Exploration
. Image Transmission

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Unmanned Aerial Vehicles : Ghost

Ghost is a drone with a rotary-wing system in the unmanned aerial vehicle category. It has a payload capacity of 1-5 kg. It will be capable of autonomously performing tasks in real life, allowing for multiple applications in various fields (courier drone, assistance drone, etc.).

Technical Specifications

. Weight: 3.5kg
. Dimensions (l,w,h): 58x58x12 cm
. Control: Autonomous
. Operating time: 1 hour
. Payload: 1 – 5 kg
. Telemetry: Internet (infinite range)

Capabilities

. Transport
. Autonomous return to home
. Surveillance
. Exploration
. Image transmission

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Unmanned Ground Vehicles

Makinafleo is developing autonomous, semi-autonomous, and remotely controlled unmanned ground vehicles that can be used in various fields. Robcar, Nefisbot, and MFX-1 are three separate unmanned ground vehicles currently being developed, capable of undertaking different tasks. MFX-1 is a robot specifically designed for agricultural use. With its artificial intelligence algorithms, it can perform tasks such as weed spraying and detecting diseased plants. Nefisbot is a robot developed for military and scientific purposes, capable of undertaking tasks such as surveillance, exploration, and training. Robcar is a robot designed for courier tasks (shopping, mail, food distribution). It can operate autonomously or be remotely controlled, providing a faster and safer alternative to utilizing human time. The robots are designed to carry out tasks more easily and safely without endangering human life. The next slide showcases the features of the robots.

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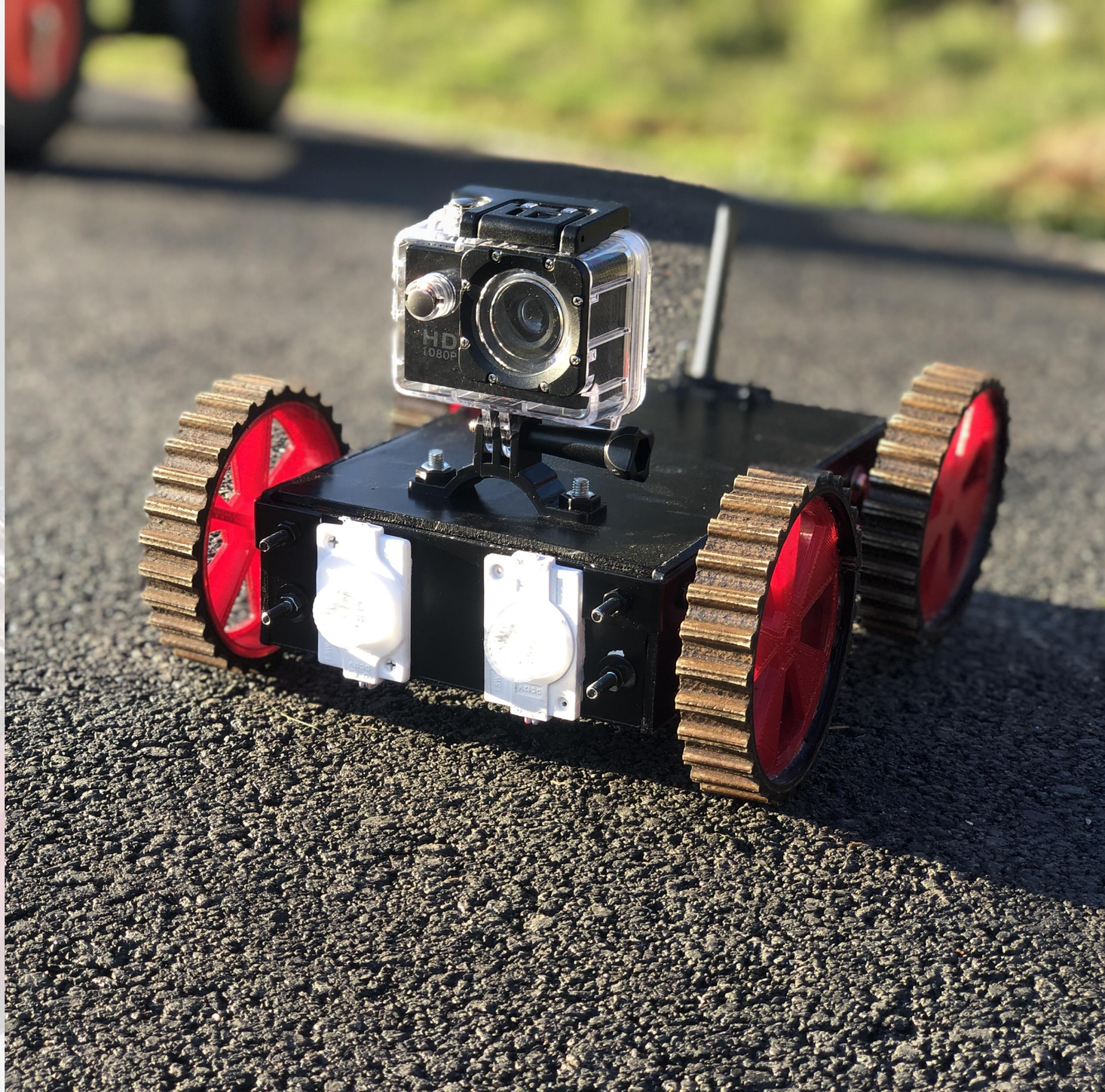
NefisBot

Capabilities

. Return to home
. Object recognition
. Surveillance
. Exploration
. Image transmission

Technical Specifications

. Weight: 2.5kg
. Dimensions (l,w,h): 19.1x24x9.5 cm
. Control: Remote control (1km)
. Operating time: 1.5 hours
. Maximum speed: 20km/h
. Payload: 1kg
. Telemetry: Internet (infinite range)
. Version 0.2



MFX-1

Capabilities

. Object recognition
. Return to home
. Image transmission

Technical Specifications

. Weight: 15kg
. Dimensions (l,w,h): 67x77x43 cm
. Control: Internet (Infinite range)
. Operating time: 5 hours
. Maximum speed: 10km/h
. Payload: 80kg
. Telemetry: Internet (Infinite range)
. Version 0.1

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Robcar

Capabilities

. Autonomous driving
. Night driving capability
. High transport capacity
. Exploration

Technical Specifications

. Weight: 4kg
. Dimensions (l,w,h): 42x39x30 cm
. Control: Autonomous - remote control
. Operating time: 1 hour
. Maximum speed: 10km/h
. Payload: 5kg
. Telemetry: Internet (infinite range)
. Version 0.1

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IoT Technologies

MakinaFleo works in the field of unmanned vehicles as well as IoT technologies. It aims to simplify life, transform industries, and make the world a more connected place using IoT technologies. Our vision is to build a sustainable, smart, and secure future by believing that technology is a transformative force in human life. MakinaFleo has implemented some IoT devices with its unique hardware and API systems to date (shown in the following slides)

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Telemetry Device Specifically Designed for Unmanned Vehicles

Through sensor fusion, acceleration, velocity, rotational angle, position, battery information, and image transfer data are transmitted in real-time to a remote control station. This allows easy installation onto any unmanned vehicle, enabling real-time tracking of the vehicle's information

Technical Specifications

. Dimensions: 110x87x55mm
. Real-time data transmission
. Image transmission
. User-friendly interface
. Telemetry: Local, Internet

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Smart Card Reader Systems

Technical Specifications

. Dimensions: 97.5x67.3x27 mm
. Powered by cable and battery
. Support for multiple applications via API
. Custom user interface
. Local or cloud data storage

Technical Specifications

. Dimensions: 91.5x53.5x19 mm
. Powered by cable
. Support for multiple applications via API
. Custom user interface

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Tracking System Device

It relies on a GPS tracking system. This small device, measuring 90 x 41 x 28 cm, can assist you in tracking your car and determining its location and speed on the map. You can manage it in real-time from anywhere in the world through a powerful online control panel.

Technical Specifications

. Dimensions: 90x41x28 mm
. Battery: 3.7V
. Real-time data transmission
. Easy-to-use API
. User-friendly interface

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Humidity and Temperature Sensor

Designed for factory use, it can measure the temperature of any kind of liquid, and with a powerful control panel, you can track and obtain highly precise, real-time data locally or over the internet.

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IOT Screen

This IoT device can assist you in many areas, such as monitoring online data and displaying them in real-time.

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Leo’Pi : Customized Mini Computer

This small IoT computer, based on the Linux operating system and Raspberry Pi technology, can assist you in managing your network, server, or even using it as a server itself, allowing you to handle more tasks.

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Contact

Address: Eskişehir/Türkiye

Email: info@makinafleo.com

Social Media

Youtube: makinafleo

Instagram: @makin_afleo

Website: makinafleo.com