AI VISION

Institute of Technology

Artificial Intelligence Research & Development

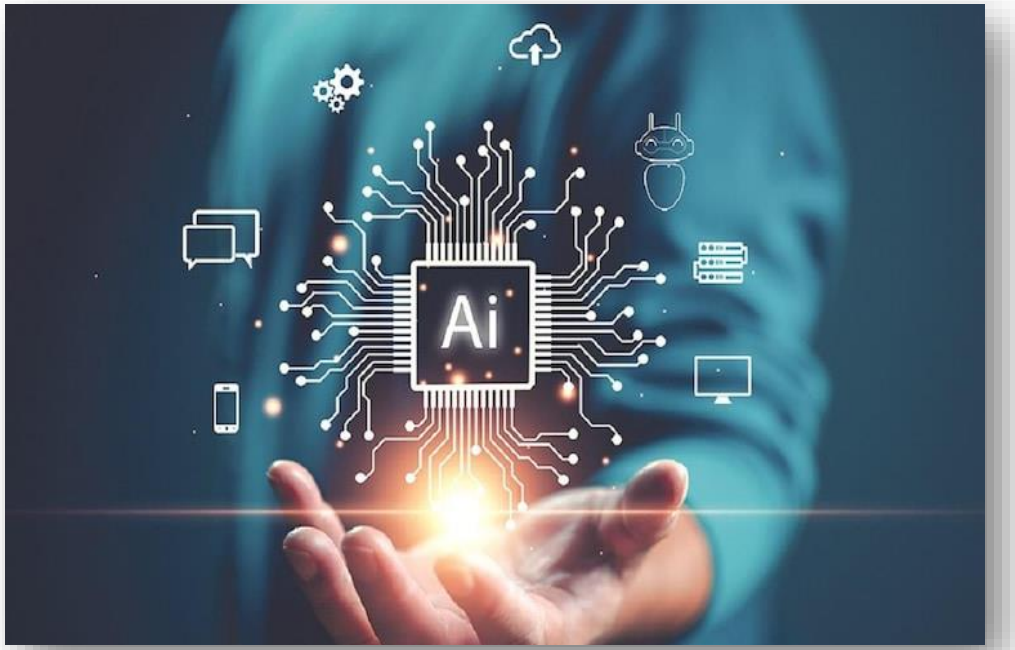
Defence & Security Institute

www.aivisioninstitute.com

AI VISION INSTITUTE & UNIVERSITY

ABOUT US

Our UK-based university aims to be a pioneering institution in research and development, fully focused on artificial intelligence technologies. With campuses in the UK, the USA, and Turkey, we develop innovative solutions and high-value technologies in the field of AI. Our mission is to equip our students with AI knowledge and skills, ensuring their success in academic and professional life, while promoting the use of AI technologies for the benefit of society.



Our Goals:

• **Research and Development:** Conduct internationally leading research in AI technologies and develop applied projects through industry collaborations.

• **Education and Teaching:** Create AI-focused undergraduate and graduate programs, providing students with advanced AI knowledge and skills.

• **Community Contribution:** Develop projects that promote the ethical, reliable, and beneficial use of AI technologies for humanity.

• **Internationalization:** Establish collaborations with international academic and research institutions to facilitate global knowledge and technology transfer.

www.aivisionuniversity.com

AI VISION INSTITUTE & UNIVERSITY

Mission of Our University

Our Mission:

As a UK-based university, we aim to be a research and development institution entirely focused on artificial intelligence technologies. Our mission is to conduct innovative and pioneering work in the field of artificial intelligence, contributing to the effective and ethical use of this technology in all areas of society. Through our campuses in the UK, the USA, and Turkey, we are committed to developing high-value-added technologies in these countries. We aim to equip our students with advanced AI knowledge and skills that will enable them to succeed in their academic and professional lives. Additionally, we strive to provide sustainable solutions to societal problems through AI technologies and to become a globally recognized university in this field.

AI VISION INSTITUTE & UNIVERSITY

Vision of Our University

Our Vision:

Our vision is to become a world-leading university in artificial intelligence technologies. We aspire to play a pioneering role on the global science and technology stage through our AI research and development activities. Guided by the principles of educational excellence, innovation, and sustainability, we aim to train our students and academics to be highly competent individuals in the field of artificial intelligence at our campuses in the UK, the USA, and Turkey. In this regard, we strive to be a center for the ethical, reliable, and beneficial use of AI technologies for humanity.

AI VISION INSTITUTE & UNIVERSITY

Goals of Our University

1.Research and Development:

- Conduct internationally leading research in the field of artificial intelligence technologies.
- Establish AI laboratories and research centers to support the projects of students and academics.
- Develop applied AI projects through collaborations with industry.
- Conduct projects at our campuses in the UK, the USA, and Turkey to develop high-value-added technologies.

2.Education and Teaching:

- Create and continuously update undergraduate and graduate programs focused on artificial intelligence.
- Equip students with skills to effectively use and develop AI technologies.
- Emphasize ethical and sustainable AI applications in the educational curriculum.

3.Community Contribution:

- Develop projects that promote the use of AI technologies for the benefit of society.
- Collaborate with public and private sectors to expand the use of AI in various fields.
- Organize seminars, conferences, and workshops to raise awareness in the field of AI.

4.Internationalization:

- Establish collaborations with international academic and research institutions to facilitate global knowledge and technology transfer.
- Participate in international AI projects and consortia.
- Offer an attractive education and research environment for international students and academics.

AI VISION INSTITUTE & UNIVERSITY

About the Founder

Abdullah Alp ASLAN is a distinguished expert, software engineer, and visionary with 25 years of international experience in artificial intelligence and advanced technologies. His deep commitment to education, research, and technological innovation has led to significant contributions in today's most critical scientific and technological fields.

Having completed his undergraduate studies at leading universities, Abdullah Alp ASLAN has undertaken numerous successful projects in artificial intelligence and software engineering. Currently, ASLAN is pursuing advanced studies in artificial intelligence at the University of Oxford, continuously updating his knowledge and experience to contribute to innovative projects.

Since 2020, Abdullah Alp ASLAN has been living in the United Kingdom with his family. He is married and a father of three. His strong family bonds help him maintain a balance between his personal and professional life.

Abdullah Alp ASLAN holds numerous patents reflecting his innovative contributions to technology. He has also worked as an IT manager in some of Turkey's prominent international companies, showcasing his expertise and leadership in the field.

In Turkey, ASLAN successfully completed the TÜBİTAK Smart Helmet Innovation Project, bringing the product to market with government support and incentives. The product is now available for global sale, and the project has earned ASLAN several awards for its technological innovation and functionality.

Under ASLAN's leadership, the university aims to develop innovative projects in artificial intelligence and high technology across campuses in the United Kingdom, the United States, and Turkey. ASLAN's vision is to provide world-class education and research opportunities to students and researchers, contributing to the technological advancement of society.

For more information about Abdullah Alp ASLAN's professional and personal projects, please visit his official website, blog, YouTube channel, and LinkedIn profile.

A.Alp Aslan

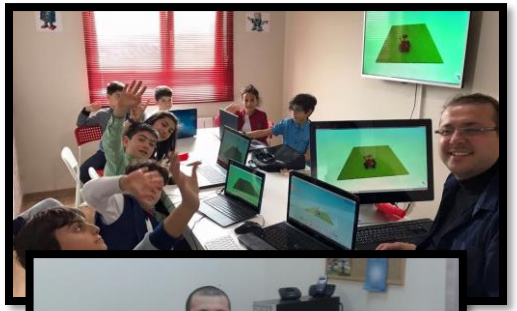
Digital Transformation Architect | Software Engineer

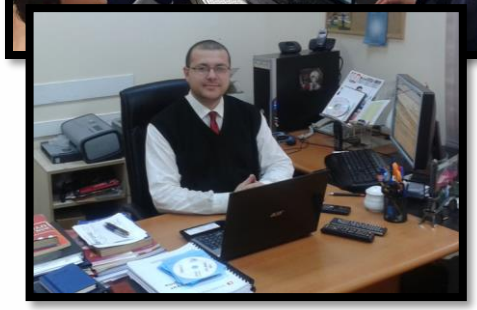
DIRECTOR | FOUNDER

AI VISION INSTITUTE & UNIVERSITY

About the Founder

A. Alp Aslan
Digital Transformation Architect | Software Engineer
DIRECTOR | FOUNDER





AI VISION INSTITUTE & UNIVERSITY

About the Director

EDIP DURDAG DIRECTOR

Edip Umran Durdağ is a **Physicist** and senior **Defense Industry Expert** with **over 20 years of experience** in the development of **Unmanned Vehicle Systems (UAV, UGV, USV)**. He has worked on major national and international projects, specializing in **kamikaze drones, armed unmanned platforms, reconnaissance systems,**
mechanical design, electromechanics, electronics, software, and system integration.

He contributed to strategic unmanned vehicle programs in **Türkiye, Azerbaijan, and Ukraine**, including **kamikaze naval drones (240 kg warhead)**, remotely controlled USV platforms, and advanced UAV systems. His work aligns with global examples such as next-generation naval drones deployed in the Black Sea.

Mr. Durdağ also develops models for establishing **Unmanned Vehicles Research & Application Institutes**, covering training, production workshops, simulation, assembly, testing, and full system manufacturing.
He advocates strengthening defense capacities across **Turkic republics**, aiming to support nations in building **independent unmanned vehicle technologies** and sustainable defense infrastructures.

Projects

AI VISION UNIVERSITY – DEFENCE & SECURITY PROJECTS
AI Innovation for Air, Land, and Naval Systems

AI Vision University develops next-generation **Defence and Security Technologies** powered by **Artificial Intelligence, Robotics, and Data Intelligence**.

The program focuses on **AI integration across air, land, and naval platforms**, supporting research and collaboration with defence industries and government partners.

Core Focus Areas:

- **Air Systems:** Autonomous drones, predictive maintenance, AI-assisted air defence.
- **Land Systems:** Smart surveillance, unmanned ground vehicles, real-time battlefield analytics.
- **Naval Systems:** AI-based navigation, threat detection, and autonomous vessel control.
- **Cyber Defence:** Intelligent threat prediction, data protection, and secure communication systems.

Through the **AI Vision Institute** and **London Valley Technology Park**, the project accelerates defence innovation, strengthens national resilience, and contributes to the development of **ethical, intelligent, and secure defence technologies** for the future.

Otonoum AI Defence Technology & Unmanned Systems

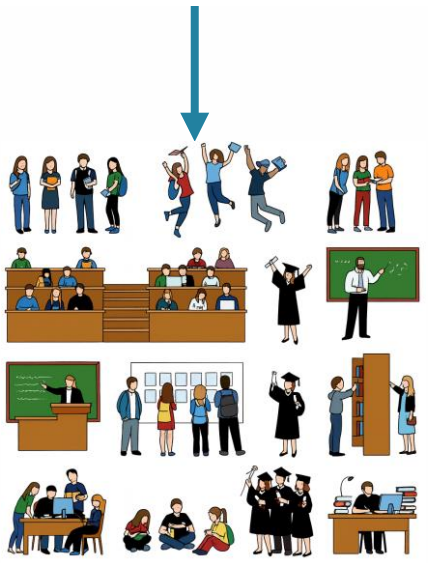
Institute of Defence and Unmanned Systems Research & Applications
(Otonoum AI Institute of Technology)

The **Institute of Defence and Unmanned Systems Research & Applications has been established within the university**.

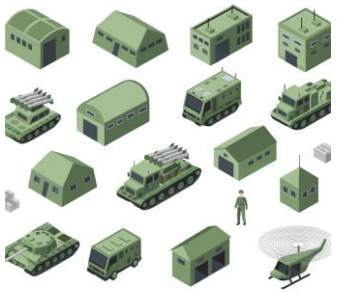
The institute focuses on autonomous vehicles, defence technologies, and practical applications in unmanned aerial, ground, and marine systems.

All required human resources will be supplied by students trained within the institute. Additional staffing support will be provided by students educated at the **Human Resources Institute**.

Otonoum AI Defence Technology
& Unmanned Systems

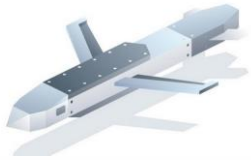


Qualified Human Resources

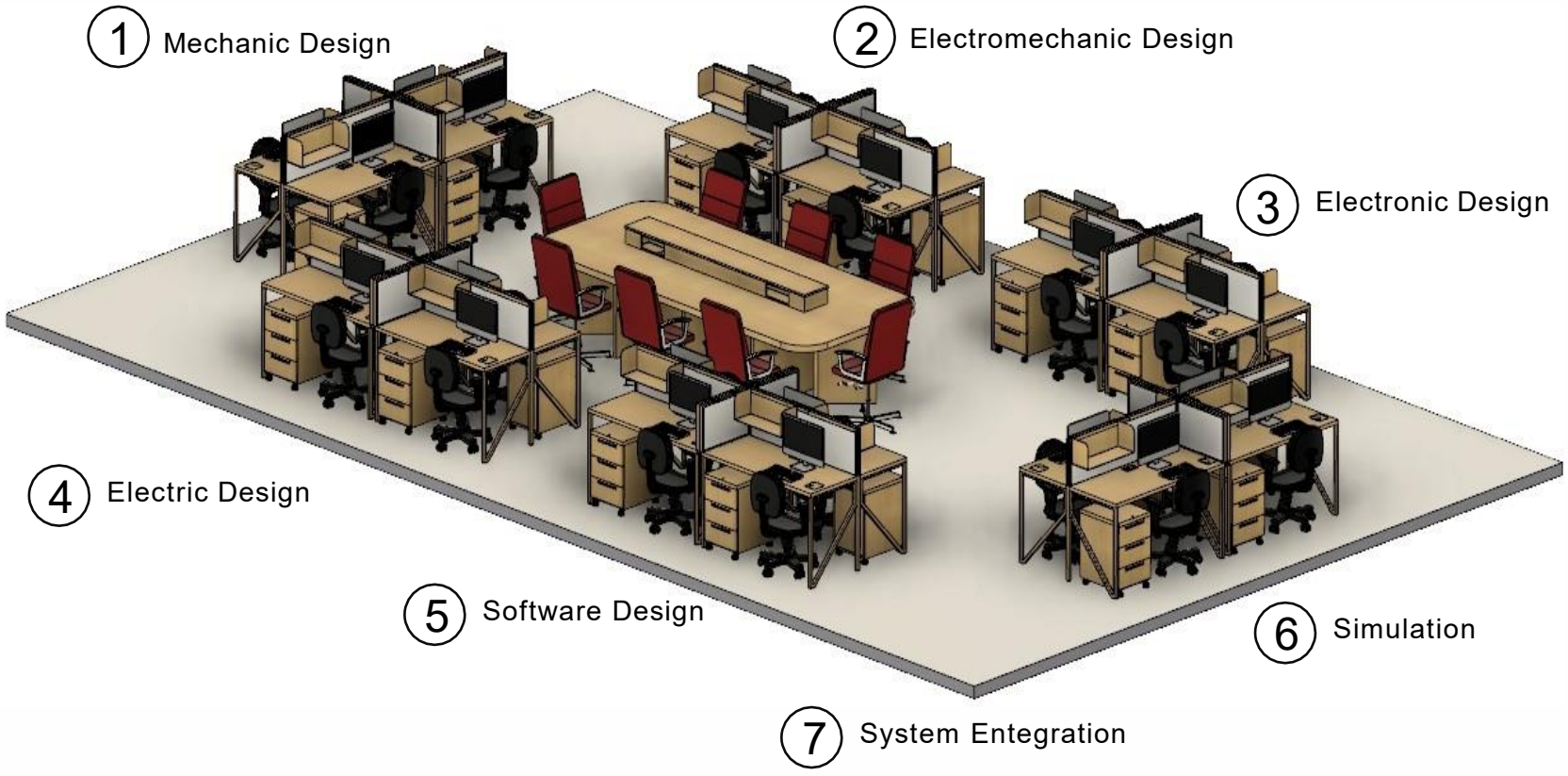


Otonoum AI Defence Technology & Unmanned Systems

Product Categories to Be Manufactured by the Application Laboratories Affiliated with the Institute for Unmanned Vehicles Research and Application

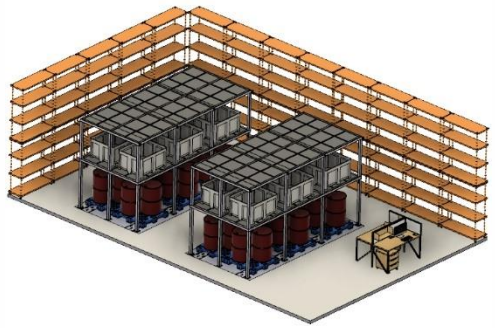
Pilotless Flying Devices (Unmanned Aerial Vehicles)	Pilotless Ground Vehicles (Unmanned Ground Vehicles)	Pilotless Marine Vehicles (Unmanned Sea Vehicles)
 Kamikaze Unmanned Aerial Vehicle	 Kamikaze Unmanned Ground Vehicle	 Kamikaze Unmanned Sea Vehicle
 Armed Unmanned Aircraft	 Armed Unmanned Ground Vehicle	 Armed Unmanned Sea Vehicle
 Reconnaissance & Surveillance Drones	 Reconnaissance & Surveillance Unmanned Ground Vehicle	 Reconnaissance & Surveillance Unmanned Sea Vehicle

Institute for Unmanned Vehicles Research and Application

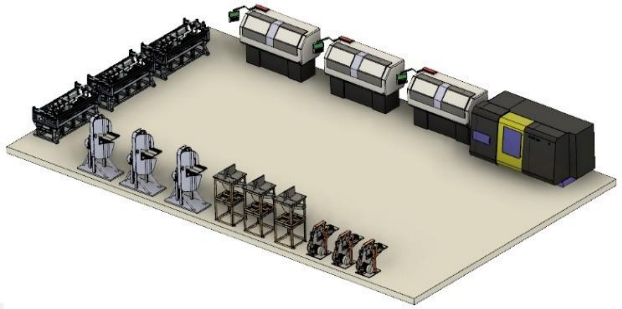


Workflow Diagram of the Application Laboratories Affiliated with the Institute for Unmanned Vehicles Research and Application.

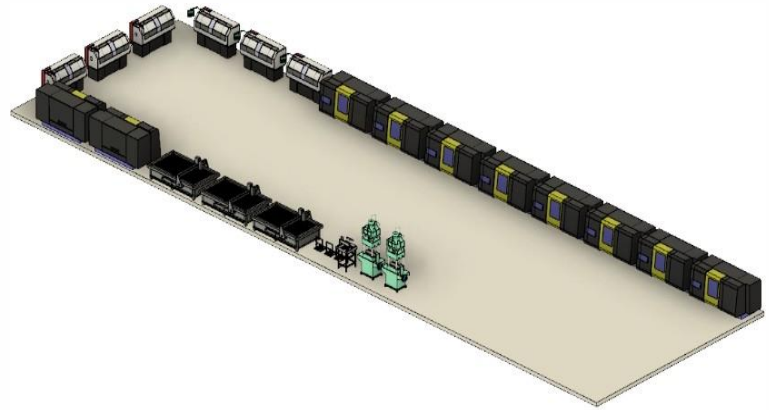
Institute for Unmanned Vehicles Research and Application



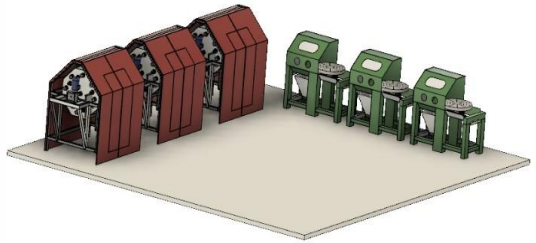
1 Storage Unit



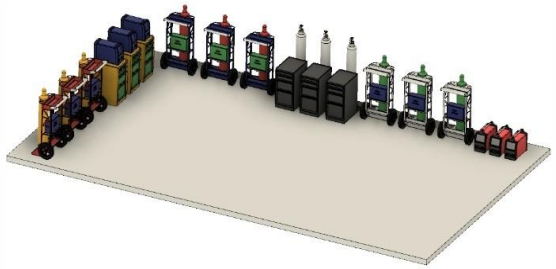
2 Preparing to Production Unit



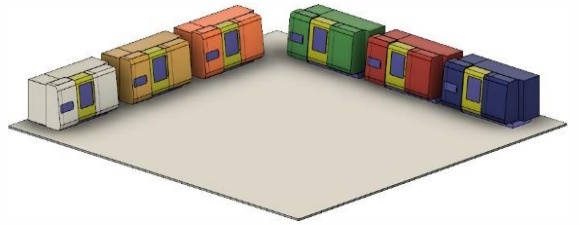
3 Processing Line



4 Preparing to Montage Unit



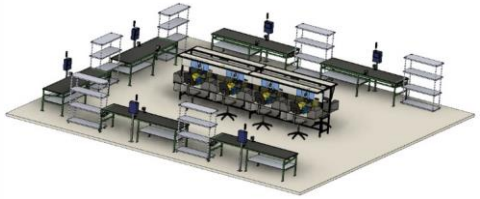
5 Welding Unit



6 Mechanical Test Unit

Institute for Unmanned Vehicles Research and Application

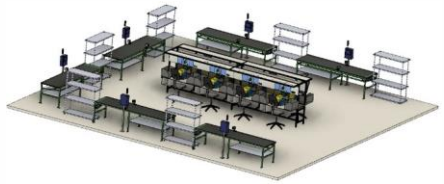
7 Mechanic Unit



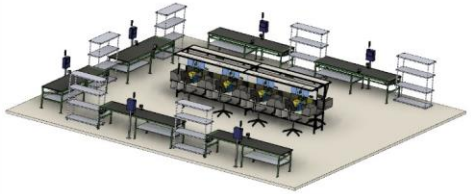
8 Electromechanic Unit

9 Cabling Unit

10 Aviation Unit



11 Navigation Unit

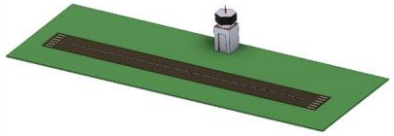


12 Payload Unit

13 System Testing Unit

14 Cover Unit

15 Paint Unit



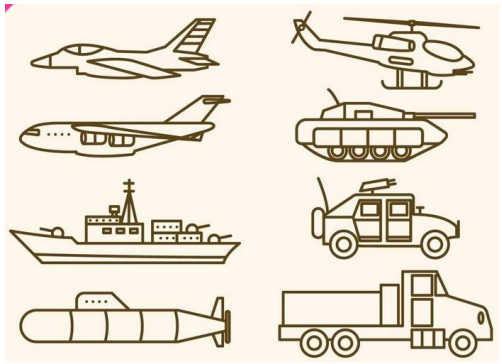
16 Flight Test Unit

17 Packing Unit

Institute for Unmanned Vehicles Research and Application

The application laboratories affiliated with the Institute for Unmanned Vehicles Research and Application will produce Unmanned Aerial, Unmanned Ground, and Unmanned Sea Vehicles.

Institute for Unmanned Vehicles Research and Application



Unmanned Vehicles

Defence Industry Company

The Institute for Unmanned Vehicles Research and Application will authorize the Defence Industry Company that will be established to sell the manufactured products worldwide.

Otonoum AI Defence Technology & Unmanned Systems

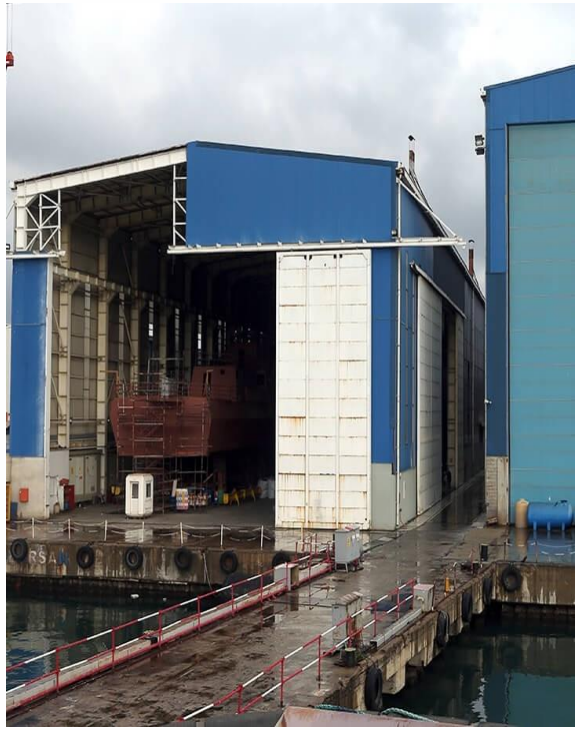
AI VISION
Institute of Technology
Artificial Intelligence Research & Development

Otonoum AI Defence Technology & Unmanned Systems

- The main factors that will affect finance
  - Investment cost (Facility, Machine, Vehicle)
  - Operating cost
  - Staff member cost
  - Raw material cost
  - Know-How transfer fee

Investment

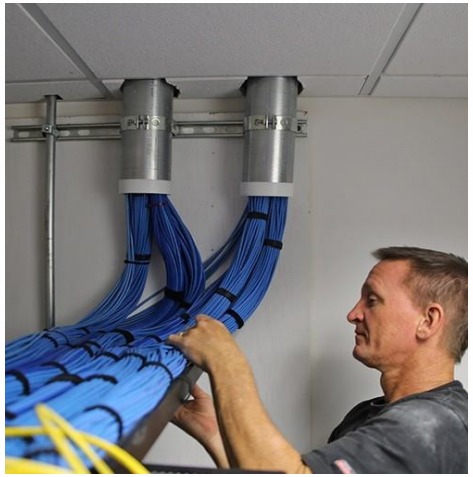
- Facility
- Machine
- Vehicle



COST FOR REALIZE “UNMANNED VEHICLES” PRODUCTS

Required cost per year to operate the facility

Electronic, Communication, Meal, Water, Industrial Gas, Natural gas, Commute fee, Cash)



COST FOR REALIZE “UNMANNED VEHICLES” PRODUCTS

Manager, Manager Assistants, Director of Compartments (Mechanics, Electromechanics, Electronics, Software, System Integration, Area Applications),

Ship and Plane Engineers, Mechanic Engineers, Physics Engineers, Chemical Engineers, Electric- Electronic Engineers, Computer Engineers, Technicians, Workers,

Composite Design and Manufacturing, Electromechanic Design and Manufacturing, Electric-Electronic Design and Manufacturing, Software Design and Implementations, Production Assembly and Integration Team, Test
Teams,

Captains,

Ground Control Teams,

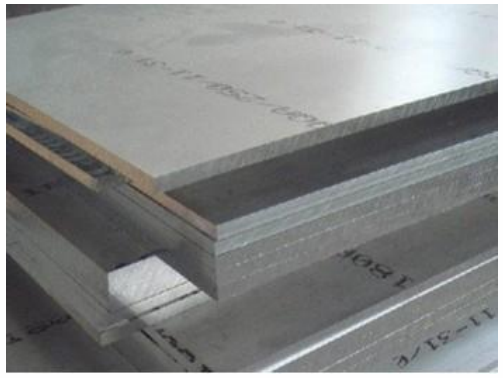
Approx. 80 Member of this projects.)

COST FOR REALIZE “UNMANNED VEHICLES” PRODUCTS

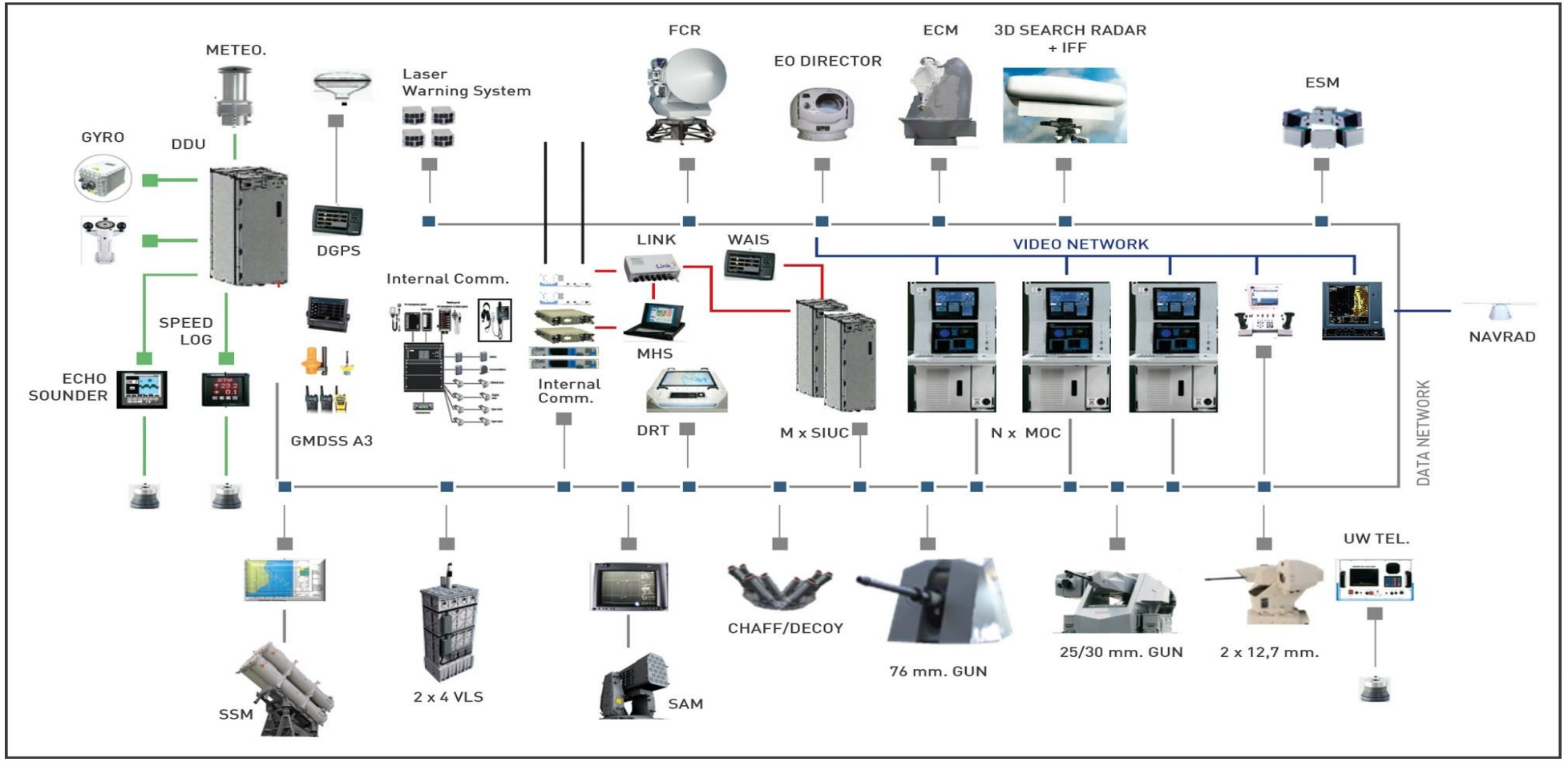
Composite production materials

Metal materials

Industrial plastic materials Industrial adhesives



COST FOR REALIZE “UNMANNED VEHICLES” PRODUCTS



MISSIONS SYSTEM INTEGRATION

New Projects

KARABATAK - Kamikaze Drone & USV – Short Project Summary

The **Kamikaze Drone and Unmanned Surface Vessel (USV)** project delivers a next-generation autonomous strike capability for modern defence operations. Both platforms are equipped with **AI-enhanced navigation, FLIR/EO sensors, GNSS targeting, and precision attack modules**, enabling high-accuracy engagement of critical targets.

The **Kamikaze Drone** provides long-range aerial strike capability with a low-observable design and autonomous terminal attack mode.

The **Kamikaze USV** offers high-speed maritime assault, ideal for targeting enemy ships, coastal assets, and high-value naval infrastructure.

These systems provide **low-cost, high-impact, risk-free strike solutions**, enabling effective operations across air and maritime domains, individually or in coordinated swarm missions.

New Projects

Core Technical Features

- **AI Control Module:** Autonomous flight & navigation, obstacle avoidance
- **Multi-Sensor Targeting:** FLIR/EO, GNSS, LIDAR fusion
- **Guidance System:** Anti-jamming GNSS + inertial navigation
- **Propulsion:** High-efficiency jet-duct engine (UAV) / hydrodynamic hull propulsion (USV)
- **Communication:** Encrypted real-time data link + autonomous mission mode
- **Payload Options:** High-explosive impact warhead with precision terminal guidance

Mission Modes:

- Single-platform strike
- Coordinated swarm engagement
- Autonomous target recognition & attack

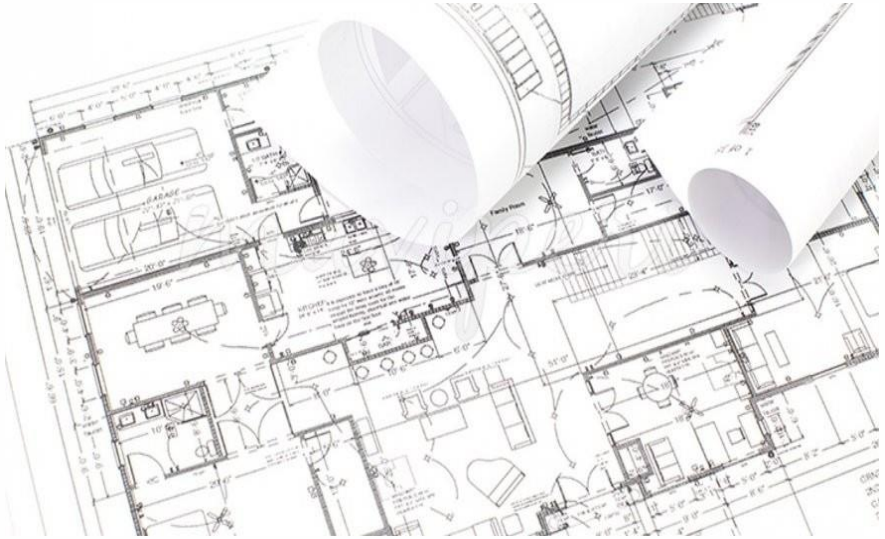
Operational Advantages

- Long-range deep-strike capability
- Low radar & thermal signature
- Fully autonomous or remote-controlled
- Optimized for asymmetric, naval, and high-value target missions

COST FOR REALIZE “UNMANNED VEHICLES” PRODUCTS

Know-How transfer fee

Know-How transfer fee includes all the information and implementation procedure. It is the charge that the transferred country should pay to have this technology. Moreover, it includes all the project and its final product.)



Accomplished Projects

2024–2025 Kamikaze Unmanned Sea Vehicle (Azerbaijan)

Accomplished Projects

2024–2025 Kamikaze Unmanned Sea Vehicle (Azerbaijan)

Accomplished Projects

KUSV can be controlled remotely from; Mobile vehicles, headquarters and command centers,deployable on floating platforms such as Landing Platform Docks, Frigates, Mine Hunting Vessels, Patrol Boats and Corvette class

2024–2025 Kamikaze Unmanned Sea Vehicle (Azerbaijan)

Accomplished Projects

NAVALNEWS

currently in negotiations with several other countries for further exports.

LEVEND has a length of 6.50 meters, a width of 2.25 meters, and a weight of 2,000 kg. It is capable of exceeding 45 knots and is powered by a 270-300 hp turbo diesel inboard engine with a stern drive propulsion system. It boasts a payload capacity of over 250 kg.

LEVEND USV while berted to the pier (Screenshot from company's relevant brochure)

navalnews.com

Accomplished Projects

2022–2024 Exercise Unmanned Sea Vehicle (Naval Forces – Türkiye)

Accomplished Projects

2021–2022 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

2022–2024 Exercise Unmanned Sea Vehicle (Naval Forces – Türkiye)

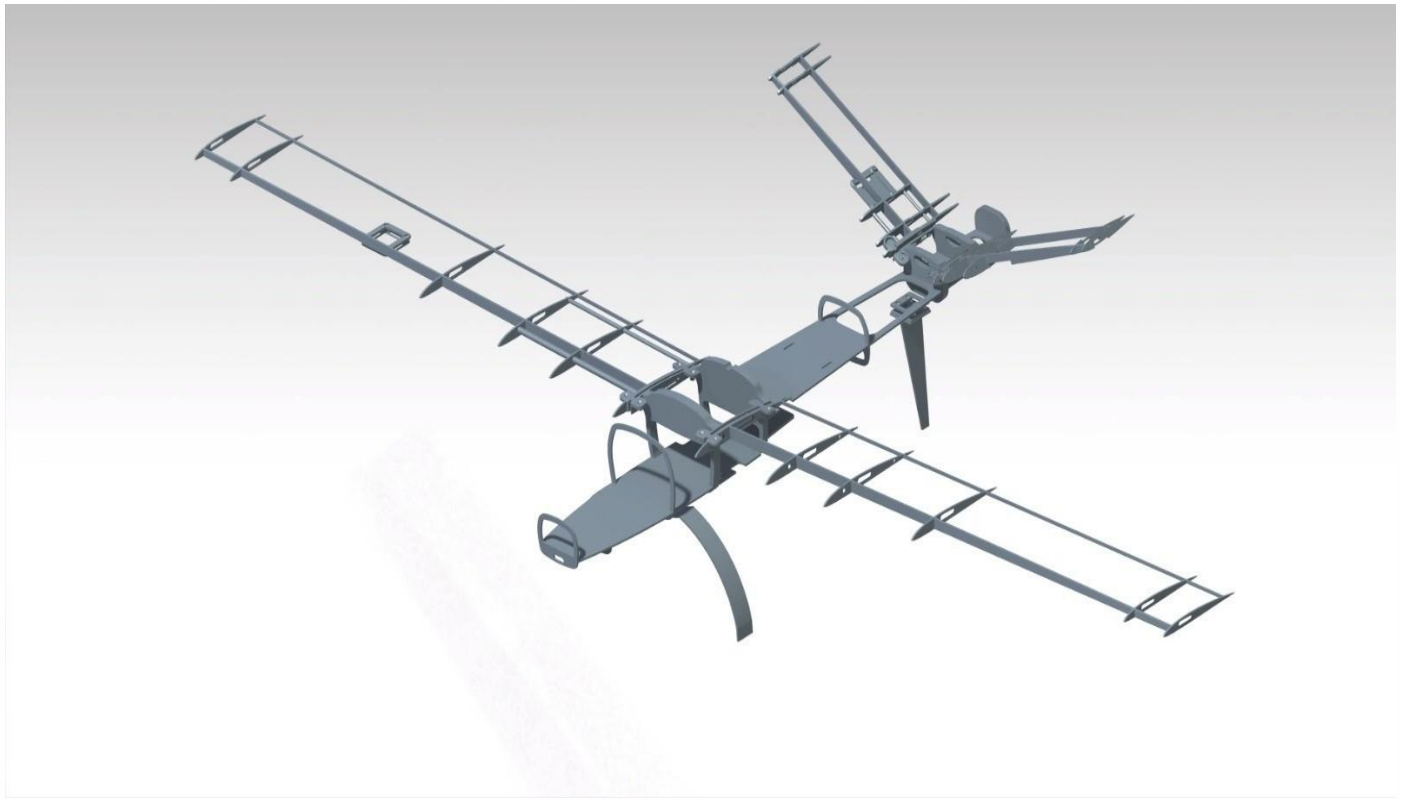
Accomplished Projects

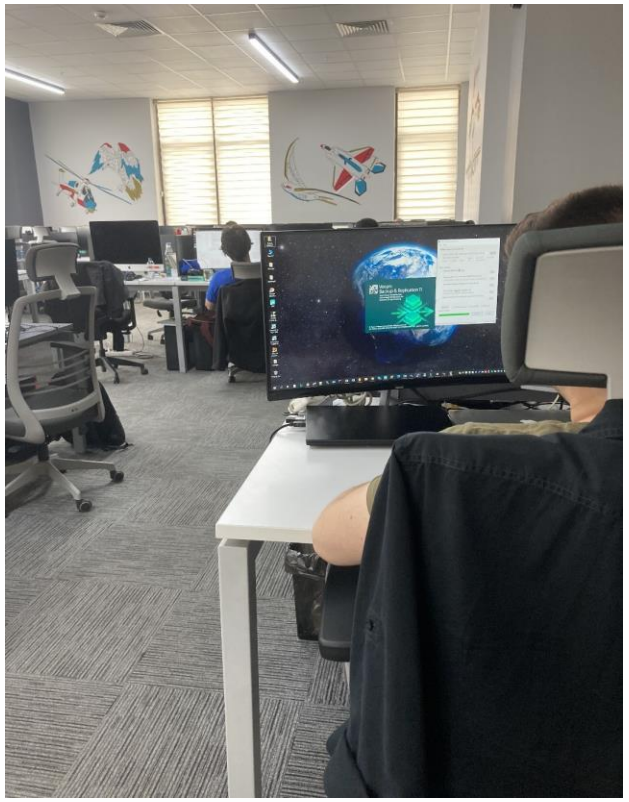
2021–2022 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

2021–2022 Armed Unmanned Sea Vehicle (Türkiye)

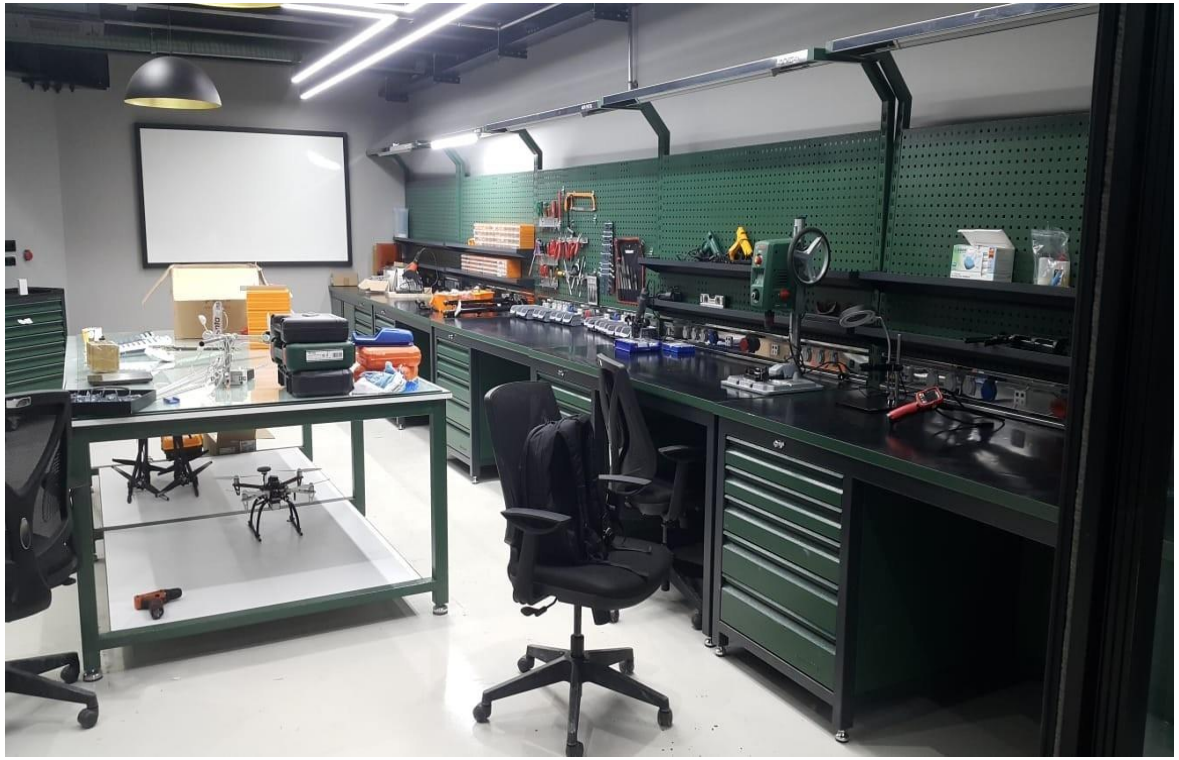
Accomplished Projects

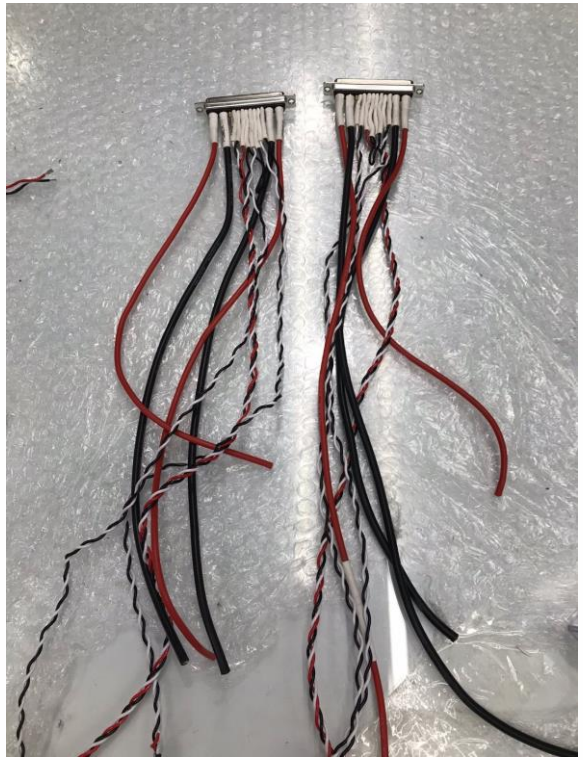




2020–2021 Armed Unmanned Sea Vehicle (Türkiye)

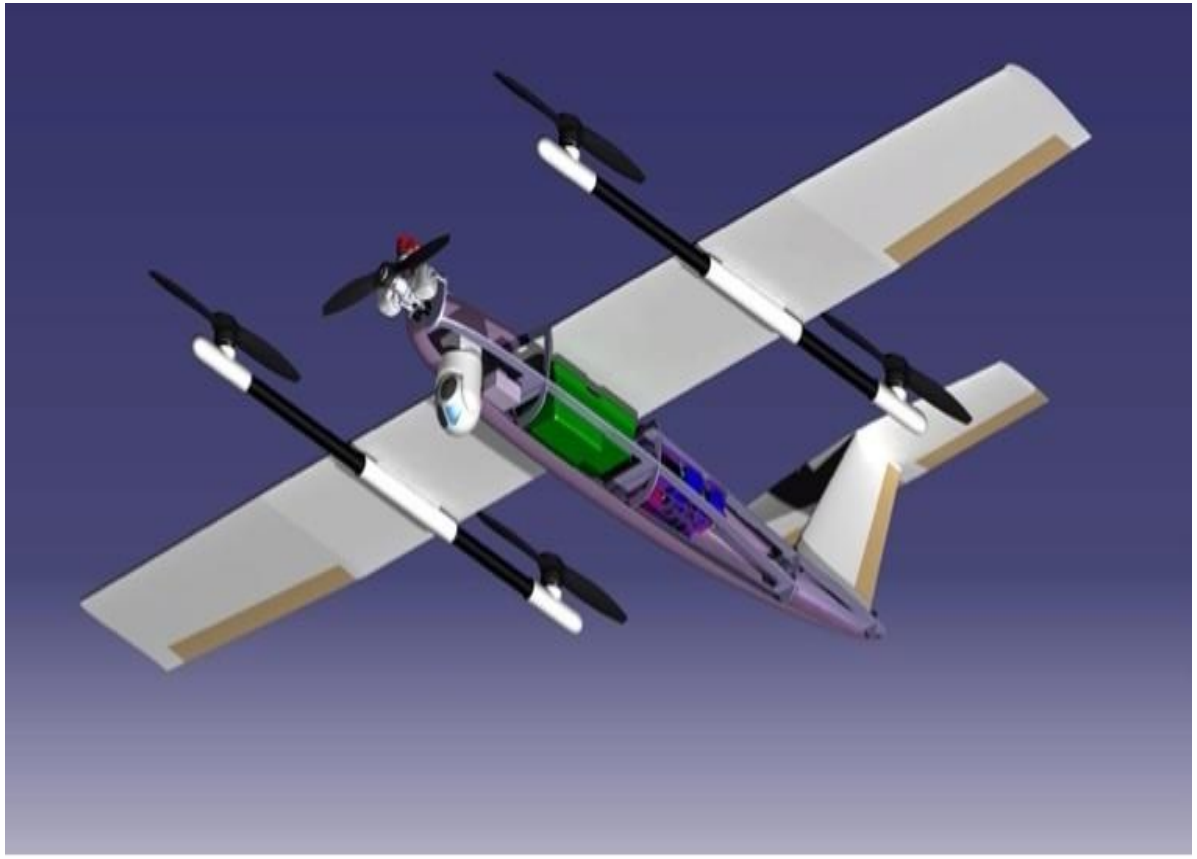
Accomplished Projects





2020–2021 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects



2020–2021 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

2021–2022 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

NANO-CLASS UNMANNED HELICOPTER: NanoAlp

In today's dynamic and multi-dimensional combat environment, security forces face not only traditional threats but also sophisticated adversaries, hybrid threat structures, and BVLoS (Balance of Duty and Security) risks. Developed with this complex operational environment in mind, NanoAlp provides real-time situational awareness, accelerates decision-making processes, and reduces the cognitive load on field personnel, even in environments where GPS is jammed and RF is disabled. The next-generation NanoAlp is equipped with a high-resolution thermal imaging system, an electro-optical camera optimized for low-light performance, and a robust SDR data link providing long-range and secure transmission. The improved rotor design and optimized power system ensure long flight endurance and stable performance even in challenging environmental conditions.

Accomplished Projects

2002–2020 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

2002–2020 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

2002–2020 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

2021–2022 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

2002–2020 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

2021–2022 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

2002–2020 Armed Unmanned Sea Vehicle (Türkiye)

Accomplished Projects

2002–2020 Armed Unmanned Sea Vehicle (Türkiye)

KAMIKAZE DRONES PROJECTS

CONCEPT
DESIGN
AND
PREVIEW

KAMIKAZE DRONES PROJECTS

CONCEPT
DESIGN
AND
PREVIEW

KAMIKAZE DRONES PROJECTS

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Artificial Intelligence Research & Development

CONCEPT DESIGN AND PREVIEW

KAMIKAZE DRONES PROJECTS

CONCEPT
DESIGN
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PREVIEW

KAMIKAZE DRONES PROJECTS

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Artificial Intelligence Research & Development

CONCEPT DESIGN AND PREVIEW

KAMIKAZE DRONES PROJECTS

CONCEPT
DESIGN
AND
PREVIEW

New Projects

SMART HELMET®
INTELLIGENT TRACKING SYSTEMS

4G Tactical Smart Helmet Camera | NVSW50 with WIFI GPS Night Vision

Industry-specific attributes
Special Features:
NIGHT VISION, Waterproof / Weatherproof, Two-way Audio
Sensor : CMOS
Style : Helmet Camera
Function : Wide Angle
Data Storage Options : Memory Card
Warranty : 1 Year
Video Compression Format : H.265
Customized support:
Online technical support, Customized logo, Software reengineering, OEM, ODM
Model Number
NVSW50
Application : outdoor
System : Andriod 11
CPU : 8 Core
Video : 1080P
IP : IP66
Internet : 4G/3G/WIFI/BT/RTSP
Night vision : Auto IR-CUT
Storage : 256GB Max
Camera : 1/2.8” Progressive Scan CMOS
Oled display screen : optional
Battery : 3600mAh

AI VISION
Institute of Technology

New Projects

SMART HELMET®
INTELLIGENT TRACKING SYSTEMS

Dog Smart Helmet NVSW50 | 4G wifi live Streaming

Special Features:
NIGHT VISION, Vandal-proof, Two-way Audio
Sensor: CMOS
Style : mini camera
Function: built-in mic, NIGHT VISION, Waterproof / Weatherproof
Data Storage Options : Micro SD card

Other attributes

Warranty : 1 Year
Video Compression Format : H.265
Customized support : Online technical support, Customized logo
Model Number
NVSW50
Application: outdoor
Video : 1080P
IP Rate : IP66
Internet : 3G/4G/WIFI
Lens : Dual Lens
Sensor : Cmos
System : Andriod
GPS : Support
TFT Screen : 2.4inch
Night vision : Auto IR-CUT

New Projects

SMART HELMET®
INTELLIGENT TRACKING SYSTEMS








Projects

AI VISION UNIVERSITY – DEFENCE & SECURITY PROJECTS
AI Innovation for Air, Land, and Naval Systems

AI Vision University develops next-generation **Defence and Security Technologies** powered by **Artificial Intelligence, Robotics, and Data Intelligence**.

The program focuses on **AI integration across air, land, and naval platforms**, supporting research and collaboration with defence industries and government partners.

Core Focus Areas:

- **Air Systems:** Autonomous drones, predictive maintenance, AI-assisted air defence.
- **Land Systems:** Smart surveillance, unmanned ground vehicles, real-time battlefield analytics.
- **Naval Systems:** AI-based navigation, threat detection, and autonomous vessel control.
- **Cyber Defence:** Intelligent threat prediction, data protection, and secure communication systems.

Through the **AI Vision Institute** and **London Valley Technology Park**, the project accelerates defence innovation, strengthens national resilience, and contributes to the development of **ethical, intelligent, and secure defence technologies** for the future.

AI VISION INSTITUTE

Global Center for AI Research & Education
The **AI Vision Institute** is the research and training arm of **AI Vision University**, leading innovation and global standardization in artificial intelligence.

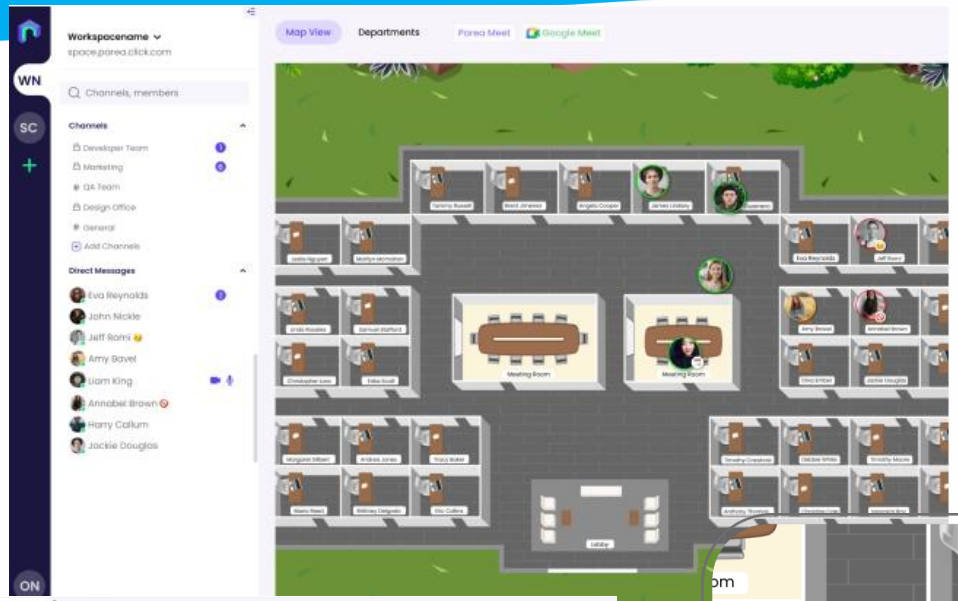
All **online courses and certifications** of AI Vision University are delivered through this institute, providing accessible, high-quality education to learners worldwide.

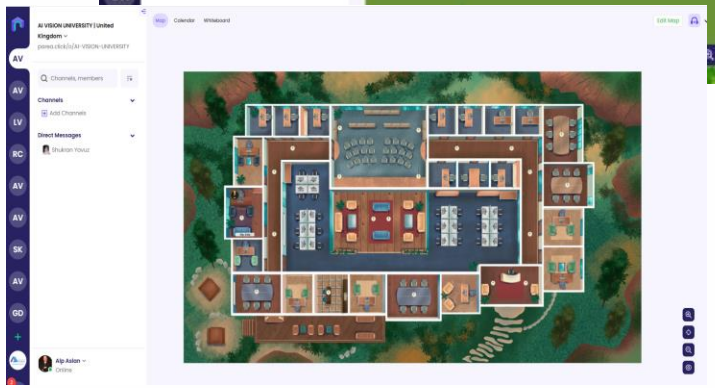
The Institute focuses on **AI research, development, and standard setting**, shaping the future of machine learning, robotics, and ethical AI on a global scale.

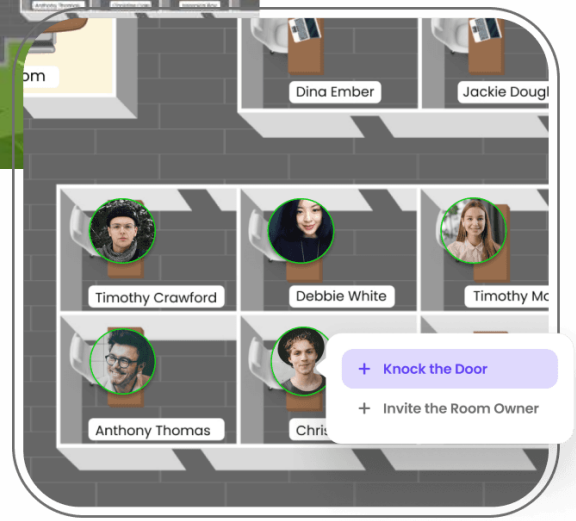
www.aivisioninstitute.com

AI Vision University – Virtual Campus (Parea-Style Virtual University Hub)

Ready







www.parea.click

Overview

Our **Virtual Campus** is an online immersive learning environment powered by advanced collaboration tools — inspired by platforms like Parea — that enables students, faculty, and staff to interact, work, and learn seamlessly from anywhere in the world.
It's not just video lectures — the campus functions as a **digital university ecosystem** with virtual classrooms, meeting rooms, student hubs, and shared project spaces.

Mission

To break geographical boundaries and provide an accessible, engaging, and interactive educational experience that replicates and enhances the in-person university environment in a virtual space.

Core Features & Capabilities

Custom Virtual Spaces: Create themed "campus rooms" (lecture halls, labs, lounges, libraries) that reflect your university identity.
Real-Time Collaboration: Voice, video, chat, screen sharing, and whiteboards integrated directly into the environment.
Engagement Tools: Polls, quizzes, breakout rooms, and interactive sessions to maintain student participation.
Project & Group Rooms: Dedicated virtual rooms for student teams, research groups or clubs.
Analytics & Reports: Track user engagement, attendance, participation metrics, and learning patterns.
Cross-Platform Access: Web, desktop and mobile support for flexible usage.
Integration & Tools: Link to LMS, course management, file sharing, scheduling, and digital resources.

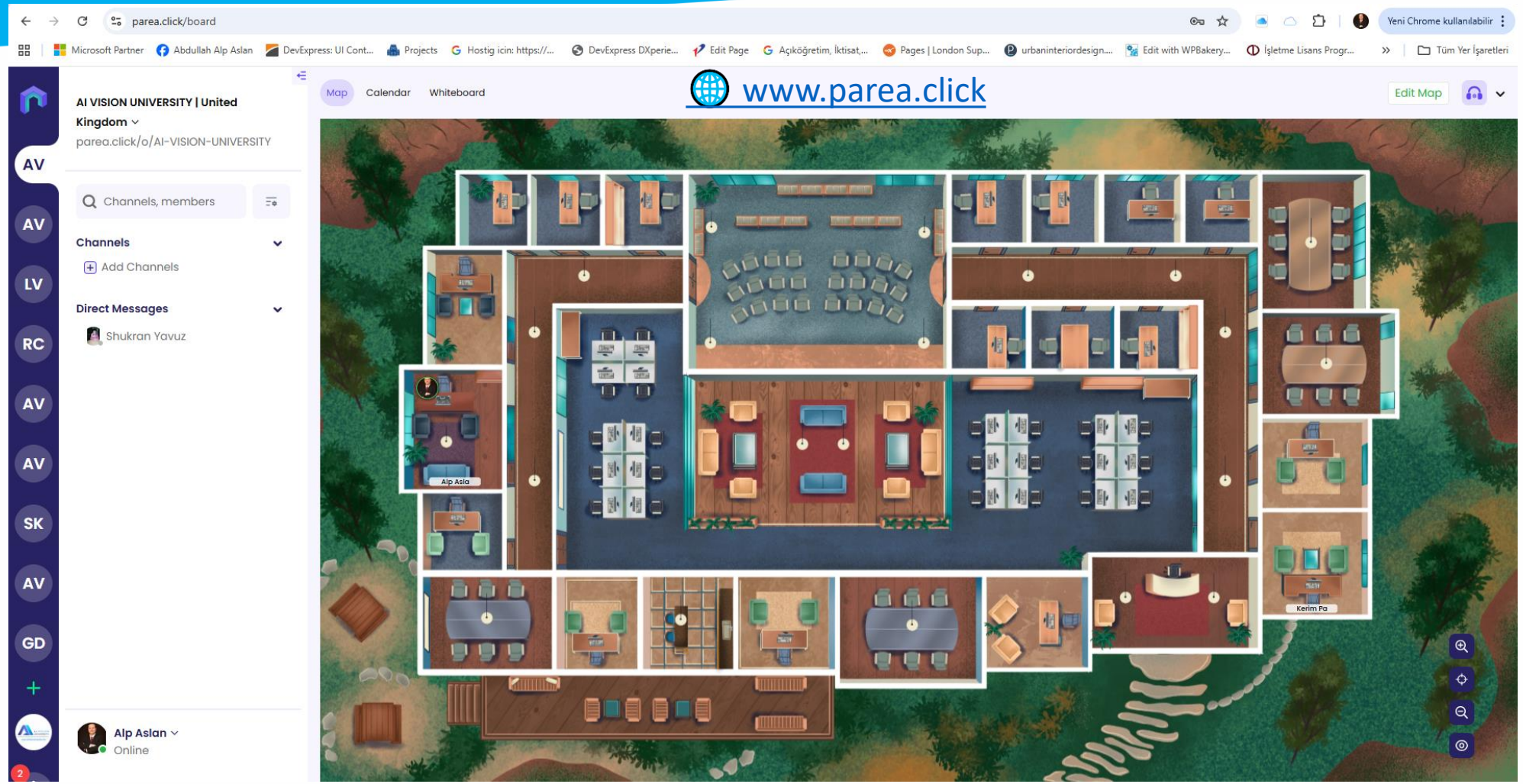
Vision

To establish **AI Vision University's Virtual Campus** as a pioneering digital institution model — a hybrid academic ecosystem where physical and virtual campuses combine, enabling students globally to access education without boundaries.

Powered by AI Vision University – London

AI Vision University – Virtual Campus (Parea-Style Virtual University Hub)

Ready



Projects

LONDON VALLEY | TECHNOLOGY PARK
The UK's Artificial Intelligence Innovation Hub
Established by AI Vision University

The **London Valley Technology Park** is a pioneering ecosystem designed to cluster companies specializing in **artificial intelligence, robotics, defence, software, and gaming technologies** under one digital and physical innovation network.
Our **virtual technology park** is already active through the **AI Vision University Virtual Campus**, providing AI-powered collaboration spaces, startup support, and innovation labs for research and development.

The **physical campus buildings** are currently under development and are expected to be fully operational by **the end of 2026**, hosting AI-driven enterprises, research labs, and international partnerships.

The park aims to bring together innovators, entrepreneurs, and researchers shaping the future of **AI, software, defence, gaming, and emerging technologies** — fostering collaboration, investment, and sustainable growth in the UK's digital economy.

🌐 www.londonvalley.co.uk

Powered by AI Vision University – London

AI VISION
Institute of Technology
Artificial Intelligence Research & Development

THANK YOU!

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