AKIN ROBOTICS

insana değer...

AKINROBOTICS

INTRODUCTION CATALOG

2009-2026

All promotions and reference information forms in this catalog were issued on January 27, 2026. Statistics may change due to the dynamic structure of the company. To get more updated information; You can visit **www.akinrobotics.com**.

ABOUT AKINROBOTICS

AKINROBOTICS, the world's first humanoid robot factory, is a private sector enterprise established with the own capital of AKINSOFT, Turkey's largest software company in the field of robotic technologies.

Robots produced under the roof of AKINROBOTICS are designed and prepared with AKINROBOTICS' own capital and R&D studies of the engineers it employs. With its highly equipped staff, it manufactures all of the robots it develops without being dependent on foreign countries.

AKINROBOTICS, which has a robotic application area of 11.000 m^2 and a closed working area of 3800 m^2, is the first Humanoid Robot Factory to make mass production with a team of engineers and technicians who are experts in their fields.

In order to increase the interest of Turkish people in science, developing technology and scientific thought, and at the same time, to move our country to the top with the studies in the field of robotic technologies, it has started to work by adopting a superior service quality approach.

AKINROBOTICS, which aims to serve humanity and science, aims to increase the quality of social life and to allow people to work in more qualified jobs by loading monotonous jobs that are contrary to human ergonomics and endangering life to robots.

AKINROBOTICS, as a private sector enterprise established with its own capital, continues on its way in this success story.

Locations

AKINROBOTICS Humanoid Robot Factory

- 10th km of Konya-Adana Highway
- 11.000 m2 outdoor area
- 3800 m2 indoor area
- 4 Coordination
- 12 Departments
- 34 Services
- Capacity of 150 personnel

AKINSOFT Headquarters

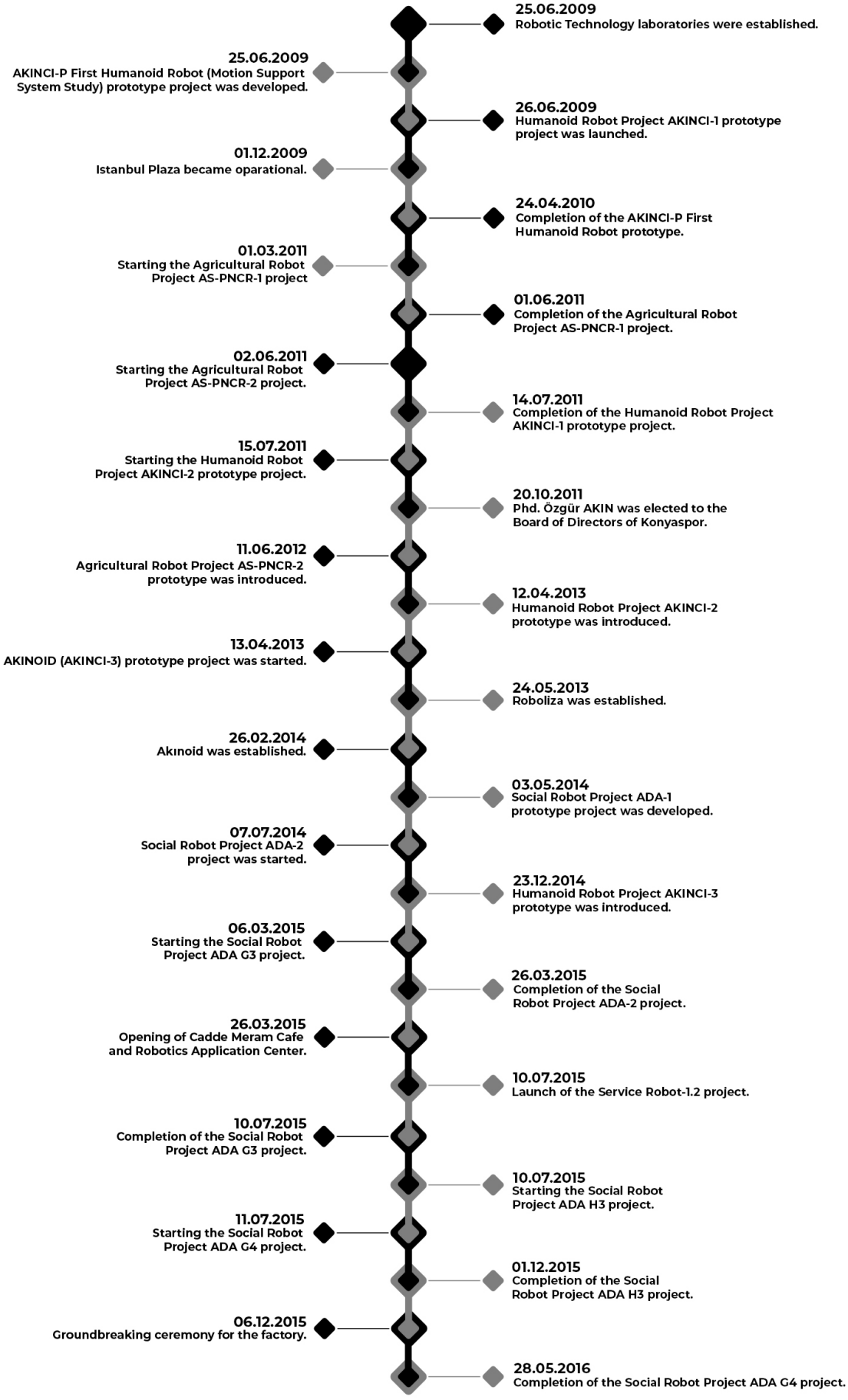
- On Istanbul road,
- 4 km. from Konya Selcuk University ,
- On tramway road,
- 15 min. from Konya Ataturk Airport,
- 15 min. from 2nd Organized Industrial Zone,
- 5,5 storey building,
- 1.800 m2 of outdoor area,
- 3.300 m2 of indoor area,
- 2 elevators,
- 66-car capacity parking lot,
- 5 Coordination,
- 14 Departments,
- 42 Services,
- Capacity of 300 personnel,
- Seminar halls for 10-30-100 persons

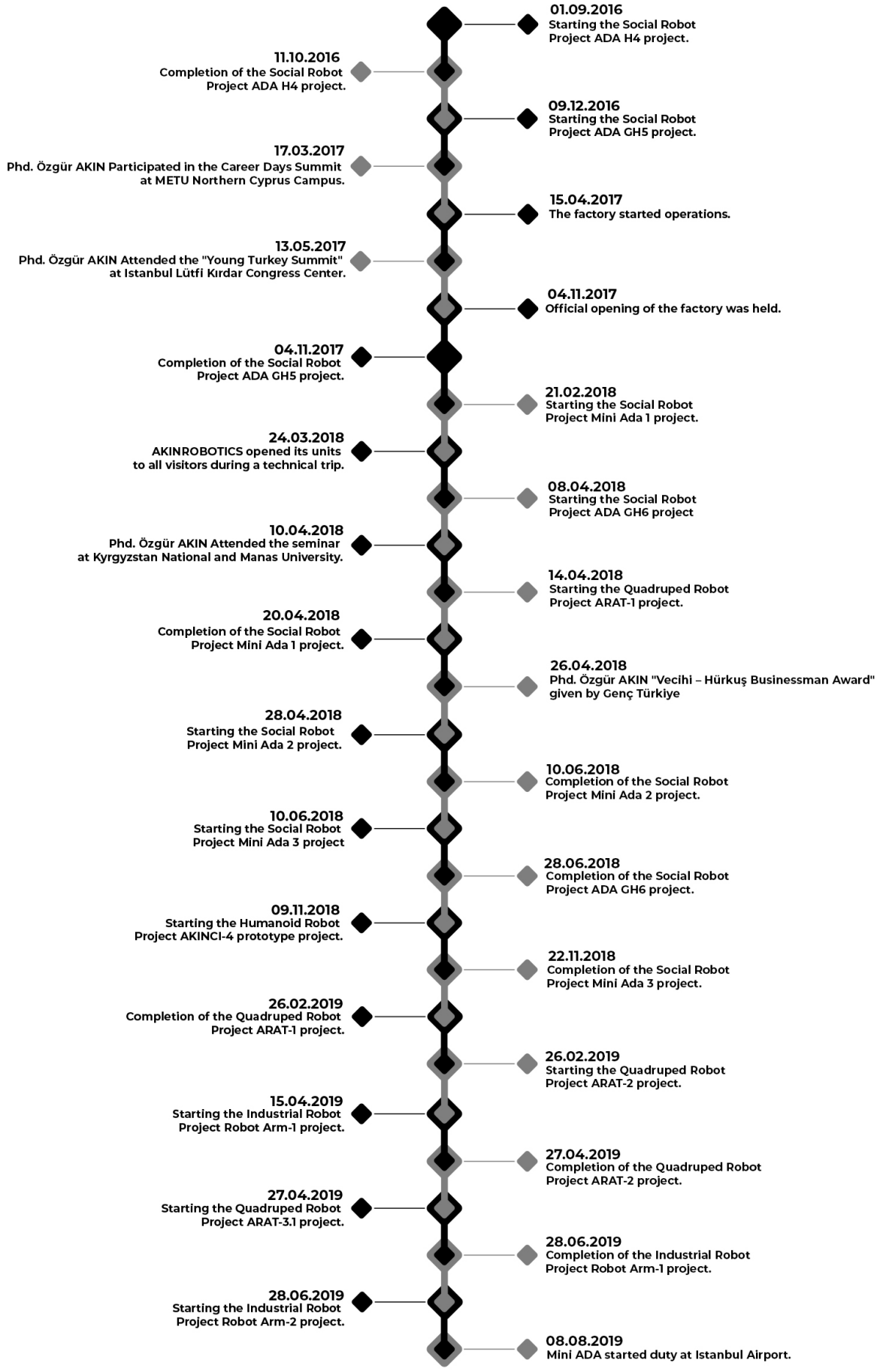
AKINSOFT Istanbul Regional Directorate

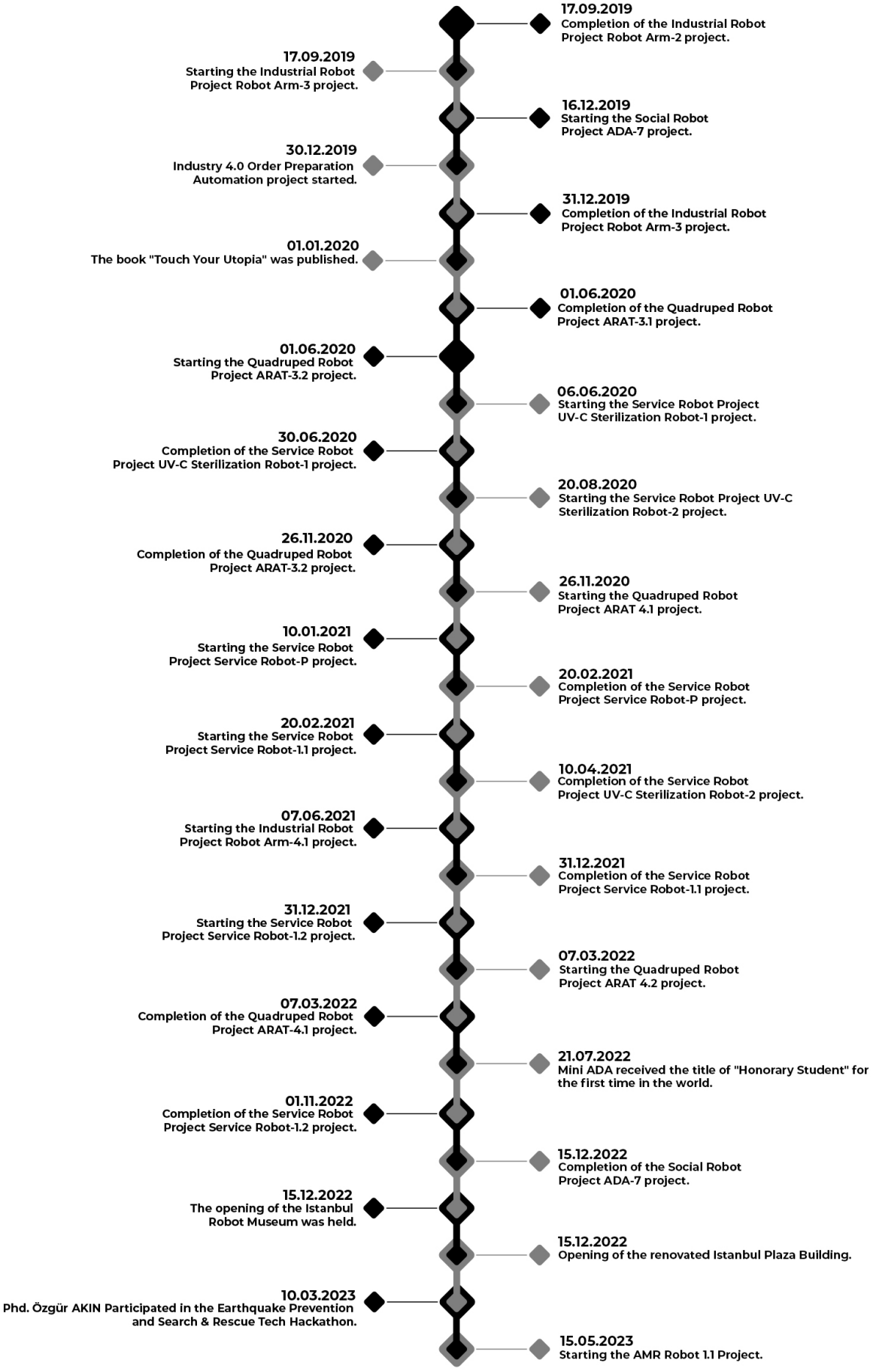
On the E5 highway,
- Near Istanbul University Avcılar Campus,
- 100 m. to Avcılar Center and Şükrübey Metrobus Stop.
- Approximately 40 minutes to Istanbul Airport
- Approximately 20-25 minutes to Ikitelli Organized Industrial Zone,
- 10 floors
- 580 m2 parking lot, garden

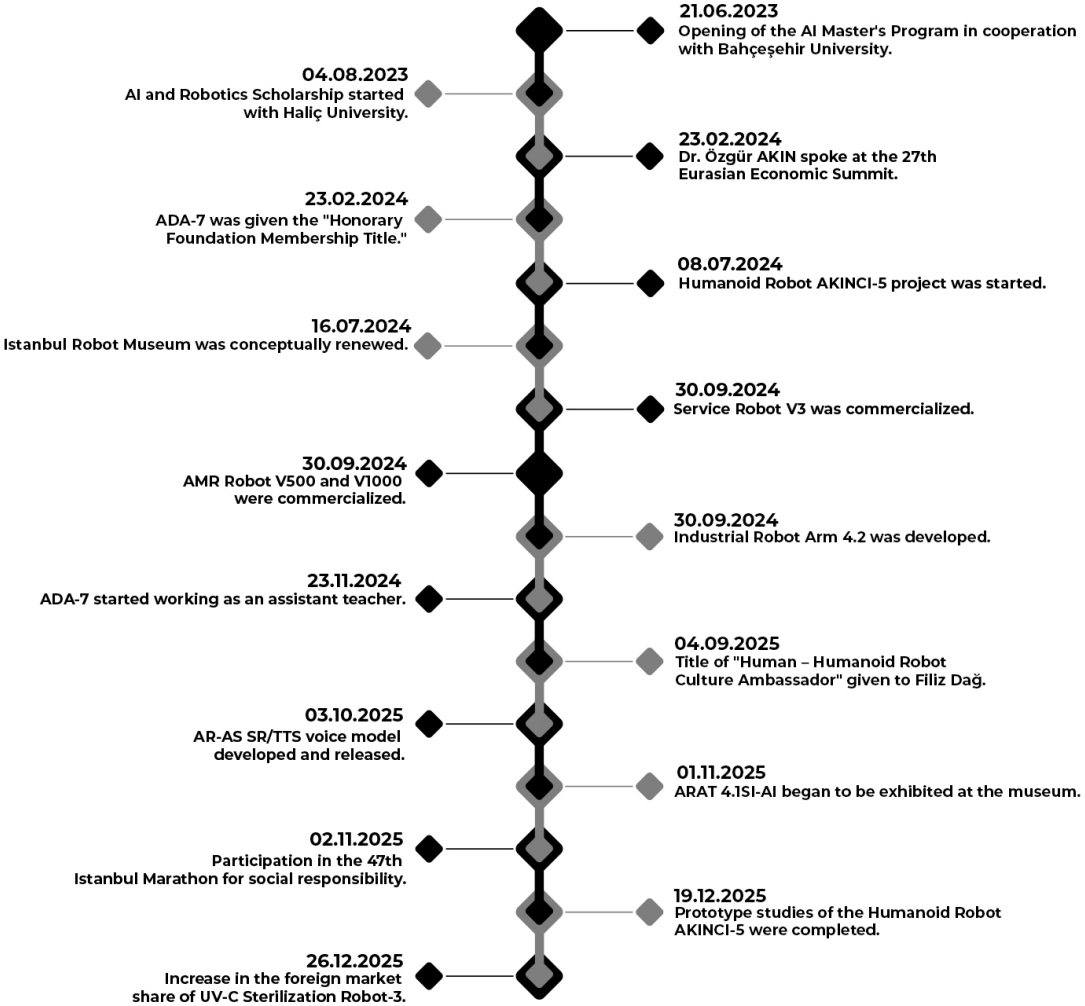
- 1 elevator,
- Approximately 8 parking spaces,
- 5 coordinations,
- 24 services,
- 11 departments,
- 120 staff capacity,
- Seminar halls for 80 and 20 persons.
- Istanbul Robot Museum which holds the title the world's first robot museum, in an area of 1024m2.

AKINROBOTICS HISTORY




01.09.2016
Starting the Social Robot Project ADA H4 project.
11.10.2016
Completion of the Social Robot Project ADA H4 project.
09.12.2016
Starting the Social Robot Project ADA GH5 project.
17.03.2017
Phd. Özgür AKIN Participated in the Career Days Summit at METU Northern Cyprus Campus.
15.04.2017
The factory started operations.
13.05.2017
Phd. Özgür AKIN Attended the "Young Turkey Summit" at Istanbul Lütfi Kırdar Congress Center.
04.11.2017
Official opening of the factory was held.
04.11.2017
Completion of the Social Robot Project ADA GH5 project.
21.02.2018
Starting the Social Robot Project Mini Ada 1 project.
24.03.2018
AKINROBOTICS opened its units to all visitors during a technical trip.
08.04.2018
Starting the Social Robot Project ADA GH6 project
10.04.2018
Phd. Özgür AKIN Attended the seminar at Kyrgyzstan National and Manas University.
14.04.2018
Starting the Quadruped Robot Project ARAT-1 project.
20.04.2018
Completion of the Social Robot Project Mini Ada 1 project.
26.04.2018
Phd. Özgür AKIN "Vecihi – Hürkuş Businessman Award" given by Genç Türkiye
28.04.2018
Starting the Social Robot Project Mini Ada 2 project.
10.06.2018
Completion of the Social Robot Project Mini Ada 2 project.
10.06.2018
Starting the Social Robot Project Mini Ada 3 project
28.06.2018
Completion of the Social Robot Project ADA GH6 project.
09.11.2018
Starting the Humanoid Robot Project AKINCI-4 prototype project.
22.11.2018
Completion of the Social Robot Project Mini Ada 3 project.
26.02.2019
Completion of the Quadruped Robot Project ARAT-1 project.
26.02.2019
Starting the Quadruped Robot Project ARAT-2 project.
15.04.2019
Starting the Industrial Robot Project Robot Arm-1 project.
27.04.2019
Completion of the Quadruped Robot Project ARAT-2 project.
27.04.2019
Starting the Quadruped Robot Project ARAT-3.1 project.
28.06.2019
Completion of the Industrial Robot Project Robot Arm-1 project.
28.06.2019
Starting the Industrial Robot Project Robot Arm-2 project.
08.08.2019
Mini ADA started duty at Istanbul Airport.


17.09.2019
Completion of the Industrial Robot Project Robot Arm-2 project.
17.09.2019
Starting the Industrial Robot Project Robot Arm-3 project.
16.12.2019
Starting the Social Robot Project ADA-7 project.
30.12.2019
Industry 4.0 Order Preparation Automation project started.
31.12.2019
Completion of the Industrial Robot Project Robot Arm-3 project.
01.01.2020
The book "Touch Your Utopia" was published.
01.06.2020
Completion of the Quadruped Robot Project ARAT-3.1 project.
01.06.2020
Starting the Quadruped Robot Project ARAT-3.2 project.
06.06.2020
Starting the Service Robot Project UV-C Sterilization Robot-1 project.
30.06.2020
Completion of the Service Robot Project UV-C Sterilization Robot-1 project.
20.08.2020
Starting the Service Robot Project UV-C Sterilization Robot-2 project.
26.11.2020
Completion of the Quadruped Robot Project ARAT-3.2 project.
26.11.2020
Starting the Quadruped Robot Project ARAT 4.1 project.
10.01.2021
Starting the Service Robot Project Service Robot-P project.
20.02.2021
Completion of the Service Robot Project Service Robot-P project.
20.02.2021
Starting the Service Robot Project Service Robot-1.1 project.
10.04.2021
Completion of the Service Robot Project UV-C Sterilization Robot-2 project.
07.06.2021
Starting the Industrial Robot Project Robot Arm-4.1 project.
31.12.2021
Completion of the Service Robot Project Service Robot-1.1 project.
31.12.2021
Starting the Service Robot Project Service Robot-1.2 project.
07.03.2022
Starting the Quadruped Robot Project ARAT 4.2 project.
07.03.2022
Completion of the Quadruped Robot Project ARAT-4.1 project.
21.07.2022
Mini ADA received the title of "Honorary Student" for the first time in the world.
01.11.2022
Completion of the Service Robot Project Service Robot-1.2 project.
15.12.2022
Completion of the Social Robot Project ADA-7 project.
15.12.2022
The opening of the Istanbul Robot Museum was held.
15.12.2022
Opening of the renovated Istanbul Plaza Building.
10.03.2023
Phd. Özgür AKIN Participated in the Earthquake Prevention and Search & Rescue Tech Hackathon.
15.05.2023
Starting the AMR Robot 1.1 Project.


21.06.2023
Opening of the AI Master's Program in cooperation with Bahçeşehir University.
04.08.2023
AI and Robotics Scholarship started with Haliç University.
23.02.2024
Dr. Özgür AKIN spoke at the 27th Eurasian Economic Summit.
23.02.2024
ADA-7 was given the "Honorary Foundation Membership Title."
08.07.2024
Humanoid Robot AKINCI-5 project was started.
16.07.2024
Istanbul Robot Museum was conceptually renewed.
30.09.2024
Service Robot V3 was commercialized.
30.09.2024
AMR Robot V500 and V1000 were commercialized.
30.09.2024
Industrial Robot Arm 4.2 was developed.
23.11.2024
ADA-7 started working as an assistant teacher.
04.09.2025
Title of "Human – Humanoid Robot Culture Ambassador" given to Filiz Dağ.
03.10.2025
AR-AS SR/TTS voice model developed and released.
01.11.2025
ARAT 4.1SI-AI began to be exhibited at the museum.
02.11.2025
Participation in the 47th Istanbul Marathon for social responsibility.
19.12.2025
Prototype studies of the Humanoid Robot AKINCI-5 were completed.
26.12.2025
Increase in the foreign market share of UV-C Sterilization Robot-3.

Software and Robotics Brand

Our Vision

In the technology competing, writing name of AKINROBOTICS to the history and live indispensability of artificial intelligence that is unavoidable fact of our life and to present the best to the humanity. “Our reason for being is to crown the values”

Our Mission

is to serve humanity and the science ideally by minimising the physical strength, making people use understanding and know-how capabilities socially in order to provide humans in the whole world live a more qualified life with the robots we produce. Because it is “Worth to Human...”

Our Quality Policy

AKINROBOTICS predicates the target group's satisfaction upon the services provided. All the negative backgrounds of the target groups are evaluated quickly, to prevent these negativenesses permanent improvements are made after the necessary informing about the solution process. Our works are based on the principle of serving of science, innovative in all process of the production in order to meet necessity and expectation of the target group. Adopting the philosophy of lean manufacturing system that is open for developing and innovation every time to our workers and keeping producing performance at the highest level by associating with the team spirit. Our works aim to move our country to the highest level on the robotic technogies by creating qualified management system.

Strategies

•Focused on staff
•Technology-centered innovation
•R&D studies on every manufacturing
•Being open for long winded projects

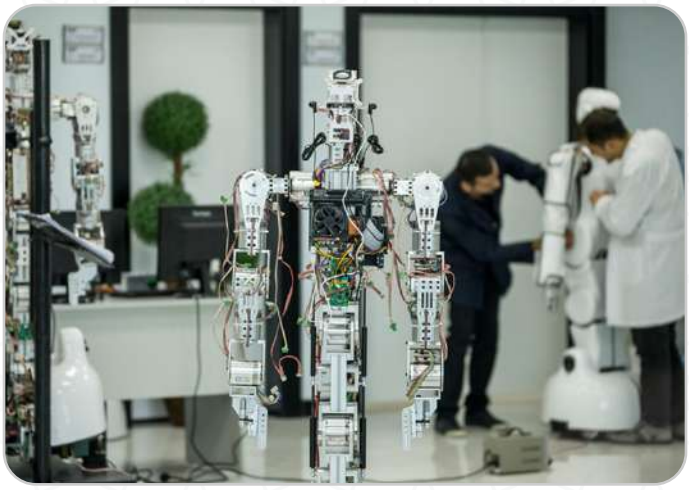
First Mass-Production Humanoid Robot Factory AKINROBOTICS

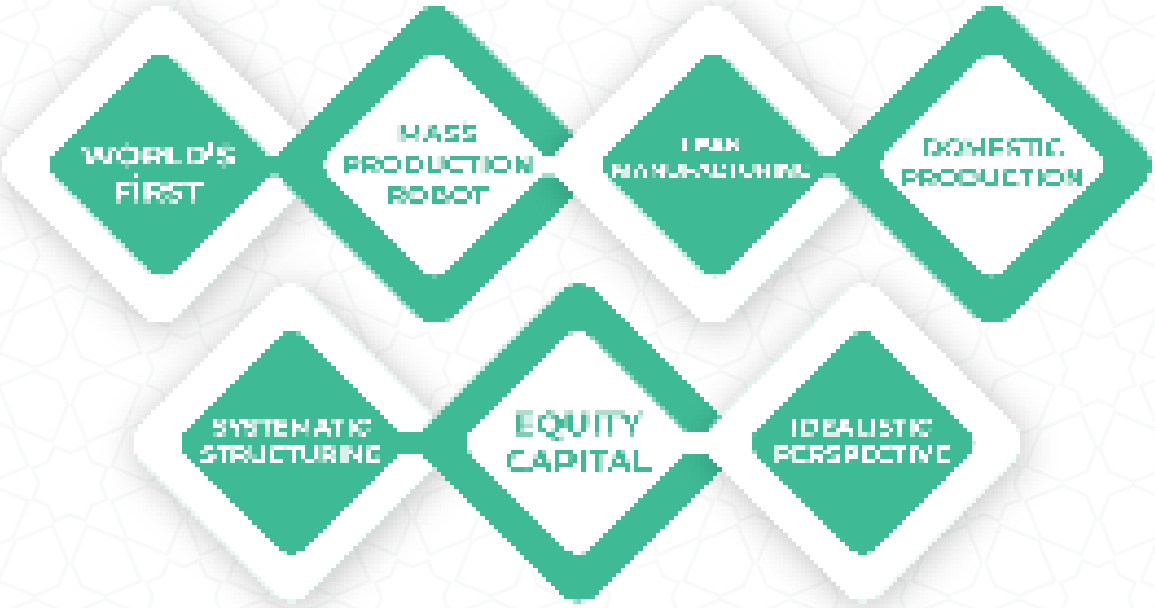
Using AKINSOFT's own capital and production tools, The official opening of AKINROBOTICS, the world's first humanoid robot factory that makes mass production, was held on November 4, 2017.

Respected members of the protocol, valuable members of the press, AKINSOFT Solution Partners and technology enthusiasts from all over the world showed great interest in the opening of the AKINROBOTICS factory, the foundation of which was laid in 2015 and which is eagerly awaited to begin mass production. At the opening ceremony, AKINSOFT and AKINROBOTICS Chairman of the Board, Computer Dr. Özgür AKIN gave a speech.

AKIN introduced the social robot Ada GH5, developed under the umbrella of AKINROBOTICS in order to serve humanity, and talked about the intense contributions of AKINROBOTICS to Turkey's Technology and the development and stages of this important step taken on behalf of Robotic Technologies. He emphasized that they have developed them for every sector imaginable in terms of social robot usage areas.

Dr. AKIN drew attention to the usability of the new generation ADA GH5 in shopping malls, hospitals, bus stations and airports, which is programmed so that even a child can easily assign it to a job. He mentioned that they are proud of successfully realizing this 30-year-old vision, which AKINSOFT had determined as "to work in the field of "Robotic Technologies" in 1995 and started to work in 2009.




WORLD'S FİRST
MASS PRODUCTION ROBOT
TEAM MANUFACTURING
DOMESTIC PRODUCTION
SYSTEMATIC STRUCTURING
EQUITY CAPITAL
IDEALISTIC PERSPECTIVE

Working Environment

Istanbul Robot Museum

Istanbul Robot Museum; It is a museum where the robots produced by AKINROBOTICS, which aims to serve humanity and science, robot prototypes and equipment used in the production of robots are exhibited.
Inside the museum, there are many areas that will allow children and adults to meet new technologies and have a pleasant time. You can not only see robots but also communicate with them.
At the Istanbul Robot Museum, Turkey's most famous robot Mini ADA will welcome you and guide you through the museum, robot arms will greet you, and social robots and humanoid robots will tell you about their features!
In addition, inside the museum, you can play with the industrial Robot Arm programmed to play Tic Tac Toe, witness the abilities of the 4-legged robot ARAT, which moves non-stop on the track prepared for it, touch the interactive panels and watch its reactions, and meet the ADA-7, the last robot of the social robot ADA series.

AKINROBOTICS In Media

TRT

TRT AVAZ

HABER TÜRK

STAR TV

TV8

WEBTEKNO

KANAL D

TRT WORLD

NTV

AA HABER

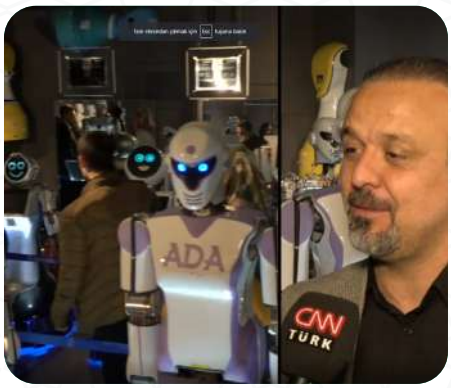
CNN TURK

NTV

AKINROBOTICS In Media

AKŞAM

BBN



CNN

EKOTURK

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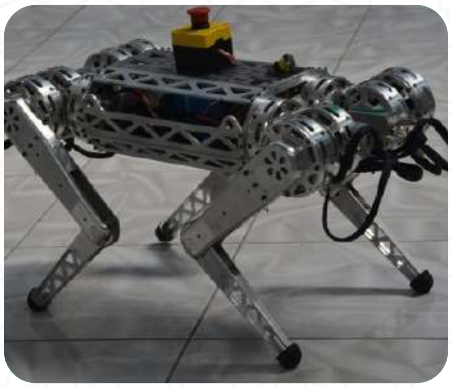
HABERLER.COM

HÜRRİYET



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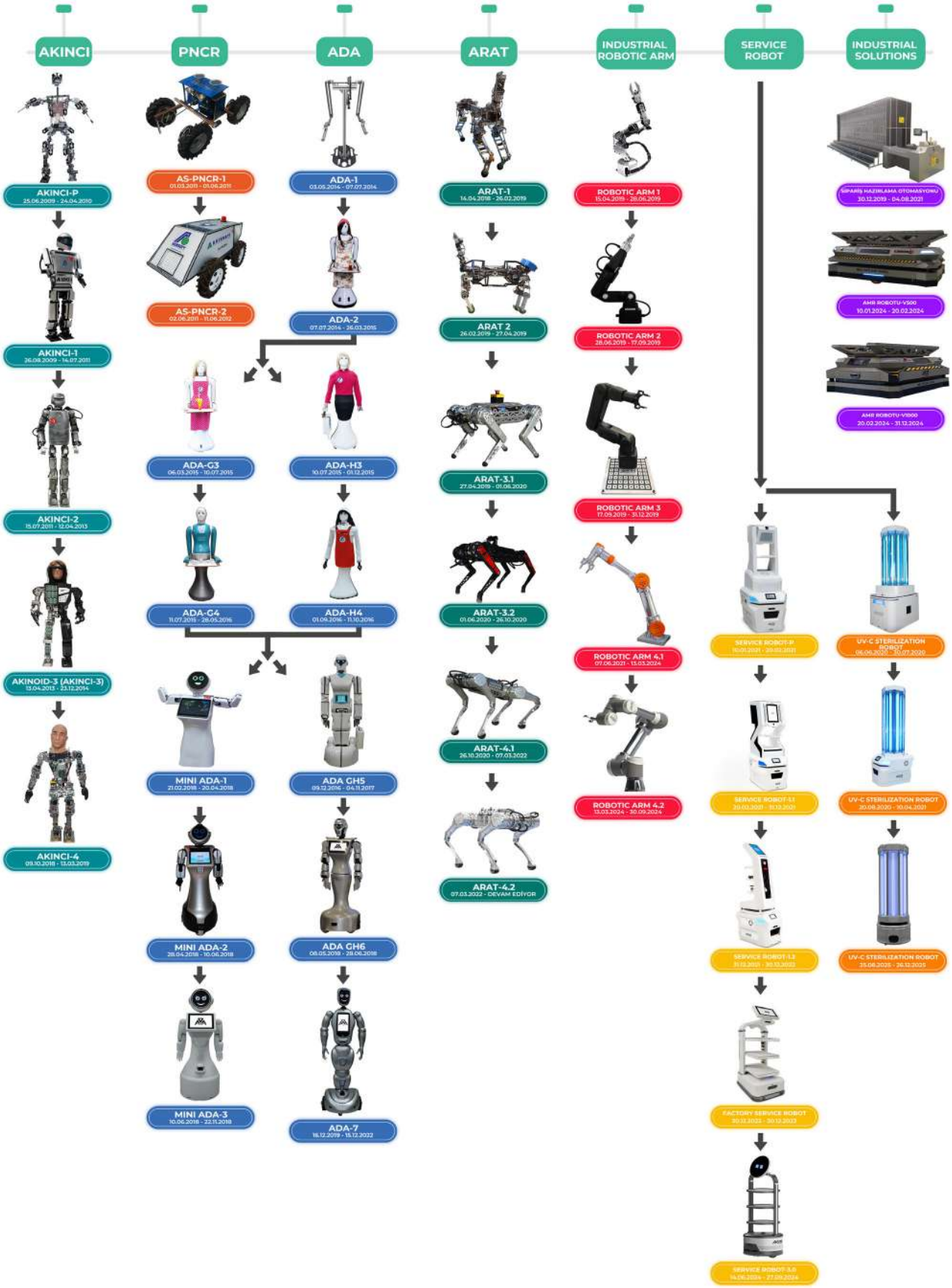
KANAL D

RUHİ ÇENET

SABAH

TGRT

AKINROBOTICS FAMILY TREE



HUMANOID ROBOT PROJECT

AKINCI-P Prototype
First Humanoid Robot
Movement Support Work

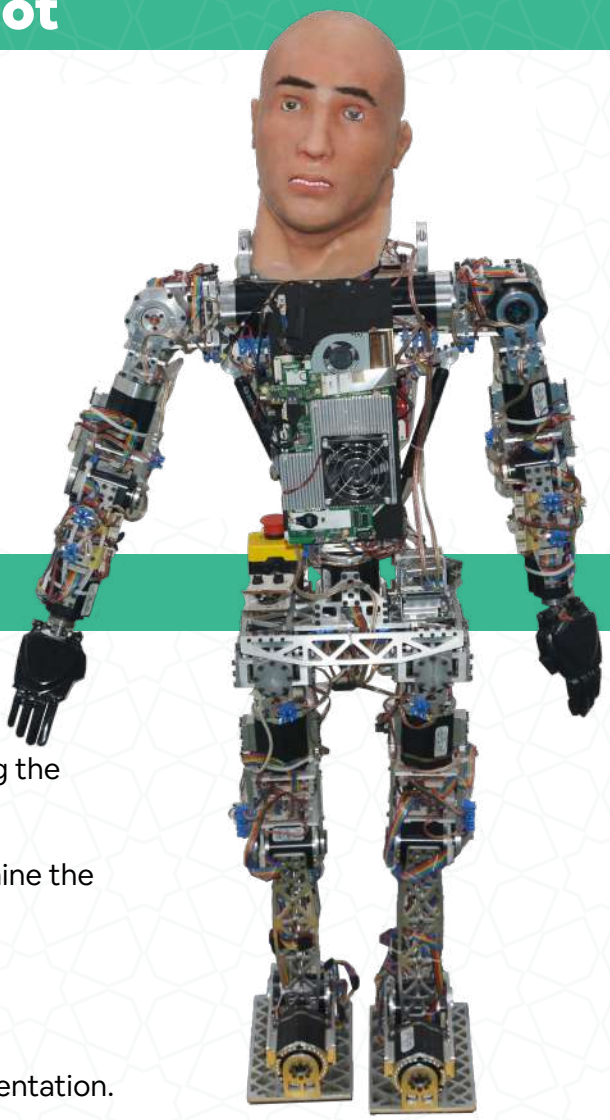
AKINCI-1
Humanoid Robot

AKINCI-2
Humanoid Robot

AKINOID-3 (AKINCI-3)
Humanoid Robot

AKINCI-4
Humanoid Robot

AKINCI-4
Humanoid Robot



09.10.2018
Project Start Date

ONGOING
Project End Date

48 KG
Weight

150 CM
Lenght

LITYUM IYON
Battery

5 HOURS
Battery Life

Language
Turkish/Multi-Language Support (English, Russian, Arabic

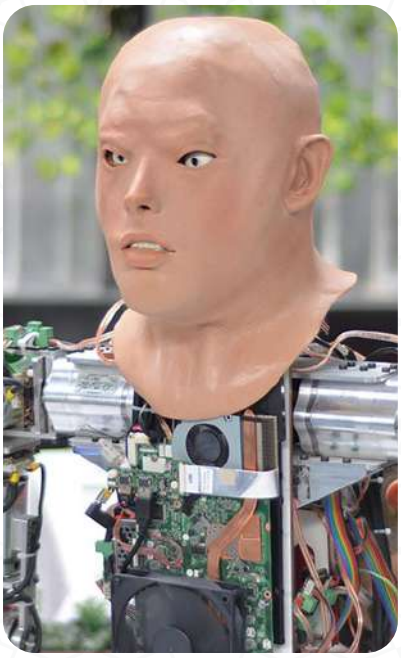
2 UNITS
Production Quantity

Abilities

Thanks to the balance sensor on, it can respond to outer forces (push, obstacle, ramp, etc.) instantly and maintain balance during the walk..

- Depth perception via Stereo vision camera. It can determine the direction while walking and reach the target point.
- With the odor sensor on, it can notify on the dangerous situations.
- Thanks to the sensors on it, it has successful direction orientation.

Joint Structure



Thanks to 2 6-axis arms, it can do almost all the movements that a human arm can do.

Thanks to 2 6-axis legs, it can walk, change direction, climb steps
It can grasp the objects with 5-finger ergonomic hands.

It can imitate human facial expressions with 12-axis facial motors.

SOCIAL ROBOT PROJECT

ADA-1
Social Robot
Project 1. Prototype

ADA-2
Social Robot

ADA-G3
Social Robot

ADA-G4
Social Robot

ADA-H3
Social Robot

ADA-H4
Social Robot

Social Robot Project

ADA GH5
Social Robot

ADA GH6
Social Robot

ADA 7
Social Robot

MINI ADA-1
Social Robot
Project 1. Prototype

MINI ADA-2
Social Robot

MINI ADA-3
Social Robot

ADA-2
Social Robot Project

07.07.2014
Project Start Date

26.03.2015
Project End Date

36 KG
Weight

150 CM
Lenght

LEAD ACID
Battery

22 HOURS
Battery Life

Language
Turkish

2 UNITS
Production Quantity

Abilities

Service from kitchen to table,

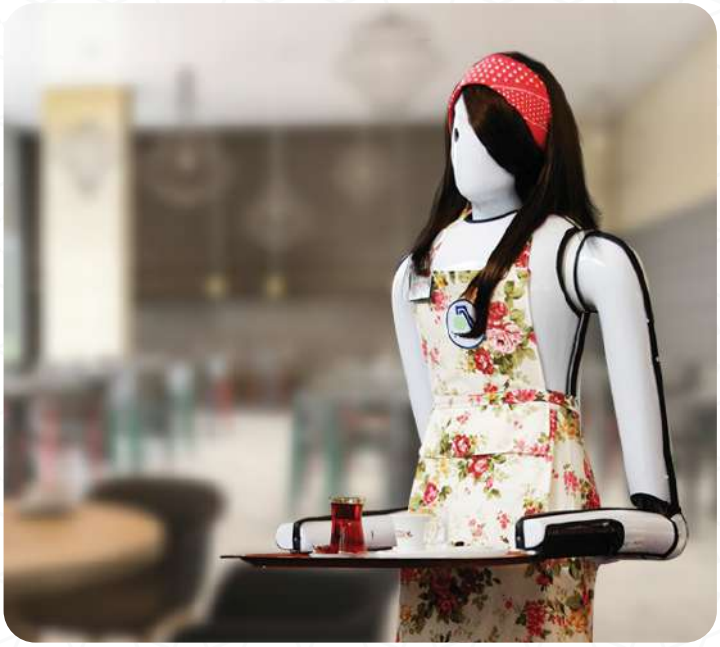
Walking,

Speaking,

Seeing,

Obstacle detection.

What Does ADA-2 Do?



Social robot project 4th Prototype (ADA G4) completed its task by serving the guests at Cadde Meram Cafe and Robotic Application Center, which is the first Robotic Application Center in Turkey, which was opened on March 26, 2015. The social robot ADA, which is 150 cm tall, 36 kg in weight, and has artificial intelligence, served its guests by serving food and beverage. The purpose of social robots used in shopping malls, mines, airports, and many other areas is not to replace humans; but to lighten the workload of the people.With the widespread use of social robots, the value given to human beings will increase, quality work efficiency will be ensured, and people's social lives will be made healthier.

ADA-G4
Social Robot Project

11.07.2015
Project Start Date

28.05.2016
Project End Date

36 KG
Weight

150 CM
Lenght

GEL BATTERY
Battery

22 HOURS
Battery Life

Language
Turkish

3 UNITS
Production Quantity

Abilities

Service from kitchen to table,

Walking, Speaking, Seeing,

Obstacle detection,

Traffic control,

Two axis mobile head

What Does ADA-G4 Do?

Social robot project 4th Prototype (ADA G4) completed its task by serving the guests at Cadde Meram Cafe and Robotic Application Center, which is the first Robotic Application Center in Turkey, which was opened on March 26, 2015. The social robot ADA, which is 150 cm tall, 36 kg in weight, and has artificial intelligence, served its guests by serving food and beverage. The purpose of social robots used in shopping malls, mines, airports, and many other areas is not to replace humans; but to lighten the workload of the people.With the widespread use of social robots, the value given to human beings will increase, quality work efficiency will be ensured, and people's social lives will be made healthier.

ADA-H4
Social Robot Project

01.09.2016
Project Start Date

11.10.2016
Project End Date

40 KG
Weight

150 CM
Lenght

GEL BATTERY
Battery

22 HOURS
Battery Life

Language
Turkish

5 UNITS
Production Quantity

Abilities

Ability to adapt to any job with speaking ability
Walking,

Voice Recognition,

Olfaction,

Dancing according to the given choreography,

Thanks to the joint structure that can imitate human,

movements, it can be programmed for many more movements.

What Does ADA- H4 Do?

On December 26, 2015, when the foundations of the Humanoid Robot Factory, which is AKINSOFT's 2015 vision, were laid, in the 11th Bonus Term Award Presentation and Groundbreaking organization the social robot ADA was presented to AKINSOFT Solution Partners. Social robot

ADA, which was influenced by ADA and AKINCI robots, distributes brochures, product promotion, face recognition with image processing technology, communicates and interacts with people, walking, speaking, seeing, high maneuverability with advanced wheel technology and ability to work in any environment, and with arms that have a joint structure that can imitate human movements, it can make many programmable movements.

ADA-7
Social Robot Project

PROJECT START DATE 16.12.2019	PROJECT END DATE 15.12.2022	WEIGHT 65 KG	BATTERY Lithium-Ion
BATTERY LIFE 8 Hours	CHARGING TIME 4 Hours	DIMENSIONS 60 x 60 x 166 cm	FACE TYPE LED Face
AUTONOMOUS CHARGING Available (Optional)	MAXIMUM SPEED 0.6 m/s	SCREEN 10.1 Inch	CONTROL AR Mobile, AR-GUI
EMERGENCY STOP Available	SENSORS Fall Protection, Lidar, Depth Camera, Touch Sensor	LANGUAGES Turkish, English, Russian, Arabic, German, Spanish, Polish, Dutch, French	

ADA-7 What She Can Do?

Thanks to the Omni Directional microphones on it, it filters the noise around it, detects the direction of the sound, transmits it to the artificial intelligence and performs the hearing function.
It performs vision and human recognition by detecting the depth through stereo vision cameras located in the head area and calculating the difference between it and the object.
It has a high resolution dynamic LED face and interacts with image processing technology by recognizing faces and objects.
With the UniDirectional microphone on it; It converts the questions and orders coming from outside into text with “speech to text”, extracts it in artificial intelligence and transmits the obtained information to the user via voice in 4 different languages.
It can walk at a speed of 50m/min by turning 360 degrees freely thanks to the wheel mechanism consisting of an ‘outrunner’ motor, which is used to make directional movements.
With its ergonomic 4-axis body structure, it performs movements that require bending, standing and turning from the waist.
With its 4-axis arm structure, it can flexibly perform all humanoid arm movements.
Thanks to its movable robotic hands, it grasps and carries objects.
It gives information about the environment, humidity and temperature with the sensors on it.
Thanks to the crash and fall sensors, it detects the obstacles around it and directs its movement.
It provides autonomous navigation thanks to the lidars and realsense camera on it.
It responds to tactile interaction thanks to the petting sensor located in the head area.
It makes online video calls in different locations with RTC (Real Time Communication) technology. Field tours are carried out by providing remote control with the mobile application.
Through the 10.1 inch touch screen integrated into its body, it can interact with people and present content such as text, pictures, photographs and show videos. Provides easy access to product information, location directions and payment information.

MINI ADA-3
Social Robot Project

PROJECT START DATE 10.06.2018	PROJECT END DATE 13.07.2019	WEIGHT 45 kg	BATTERY Lithium-Ion
BATTERY LIFE 8 Hours	CHARGING TIME 4 Hours	DIMENSIONS 46 x 46 x 123 cm	FACIAL DISPLAY LED Face
AUTONOMOUS CHARGING Available (Optional)	MAXIMUM SPEED 0.6 m/s	SCREEN 10.1 Inch	CONTROL AR Mobile, AR-GUI
EMERGENCY STOP Available	SENSORS Fall Protection, Lidar, Touch Sensor	LANGUAGES Turkish, English, Russian, Arabic, German, Spanish, Polish, Dutch, French	

Abilities

Vision and Human Recognition: It calculates the difference with the object by6 perceiving the dept through the stereo vision cameras in its eyes. It recognizes faces and objects with the image processing technology.
Hearing: Filters the noise around thanks to the 6 multi-directional microphones on it, perceiving the direction where the sound is coming from, transmits it to the artificial intelligence.
Speaking: With 2 stereo microphones; it transforms the questions and orders from outside into “speech to text” and sorts them in artificial intelligence and transmits the obtained information to the user.
Body Screen: Through the 10.1-inch touch screen integrated into its body, it can interact with people and present images such as texts, pictures, photographs, and show videos.
Text Reading: Can read words written in standard fonts above a certain size. It provides the opportunity to chat with foreign users in their own language with optional Arabic, Russian, and English language supports.

What Does ADA-3 Do?

Dancing: By dancing and figures in line with the given choreography; concert, organization, fair, etc. at events
You can attract the attention of your customers/guests with interesting shows.
Product Promotion: You can greet your guests who come to your fairground, restaurant, hotel, store, or product stand, and you can convey information about your products and services much more accurately and clearly.
Welcoming hostess / Receptionist: You can provide information by welcoming your guests in your organizations such as fairs and openings.
Location Direction: When asked about any place/point installed in the system (eg: exit door, lost and found office, taxi, etc.), it can instantly give directions and describe it by voice. In addition to this, it also draws the route of the destination point by showing the map information on the screen on it.
Interactive Structure: Instant weather, exchange rate information, time-date information, etc. can be received from the internet and transmitted to the user, either verbally or in writing.
Training: Establishes instant dialogue by giving information about the field in which it works in training.

With the optional barcode reader, ticket, invitation, attendance, etc. information can be obtained and checked, verified, and counted.

AGRICULTURE ROBOT PROTOTYPE

AS-PNCR-1
Agricultural Robot Project
1. Prototype

AS-PNCR-2
Agricultural Robot Project
2. Prototype

AS PNCR-2
Agricultural Robot Project 2. Prototype

02.06.2011 Project Start Date	**11.06.2012** Project End Date
280 KG Weight	**175 CM** Lenght
LEAD ACID Battery	**10 HOURS** Battery Life
100 CM Width	**87 CM** Height
2.8 KM/H Speed	**1 UNITS** Production Quantity

Abilitie

Autonomous beet sowing

Structure

Electromechanical Drive and Sowing Mechanism

DC Motor

Field of Use

Robotic Agriculture

What Does Agriculture Robot Do?

The first robotic system that designed and produced by AKINSOFT Robotic Department and announced in May 30, 2011, PNCR-1 and successful result of ongoing R&D works agricultural robot prototype PNCR-2 has been placed in AKINSOFT and the world history. Beet planting is a process that should be taken care of, based on special conditions, such as in many other crops. The PNCR prototypes are robotic systems that, according to these rules and circumstances, disengage the human error factor and carry land efficiency to the top. The PNCR project, which has become a more specialized system with the adaptation of the necessary algorithms (control systems) by adapting AS-PNCR-1 to real terrain conditions, has been completed under the name PNCR-2. The electronic and mechanical structure was renewed, the mobility was increased and the system was operated with solar energy by using the batteries on it more efficiently. Apart from the laboratories of the Robotic Department (AKINROBOTICS), the planting unit has also been tested in the laboratories of the Faculty of Agriculture of Selcuk University, and it has been proved that the system can sow with high accuracy despite the need of much smaller forces compared to traditional mechanical systems.

QUADRUPED ROBOT PROJECT

ARAT-1
Quadruped Robot
Project

ARAT-2
Quadruped Robot
Project

ARAT-3.1
Quadruped Robot
Project

ARAT-2
Quadruped Robot
Project

ARAT-4.2
Quadruped Robot
Project

ARAT-4.2
Quadruped Robot Project

PROJECT START DATE	PROJECT END DATE	WEIGHT	BATTERY
07.03.2022	Ongoing	27 kg	Lithium-Ion
BATTERY LIFE	**CHARGING TIME**	**DIMENSIONS**	**NUMBER OF JOINTS**
8 Hours	4 Hours	44 x 75 x 58 cm	12
NUMBER OF SENSORS	**MAXIMUM LOAD CAPACITY**	**MAXIMUM SPEED**	**CONTROL**
67	9 kg	1.8 m/s	AR Mobile, AR-GUI

Abilities

- All motors used in the robot have been designed and manufactured in-house.
- It can be wirelessly controlled for remote operation.
- Offers a wide range of motion for flexible movement.
- Equipped with an advanced Balance Protection Algorithm, allowing it to walk on rough terrain without falling.
- Features four legs, each consisting of three joints.
- Capable of walking, running, and climbing steps for exploration purposes.
- Performs real-time kinematic calculations.
- The integrated camera enables autonomous object tracking, real-time image transmission, and strategic dynamic obstacle avoidance based on image processing.
- Uses a Lidar sensor for mapping and executing autonomous tasks.
- With its 9 kg load capacity, it can be deployed for search and rescue operations in challenging terrains.

INDUSTRIAL ROBOT PROJECT

ROBOT ARM-1
Industrial Robot
Project 1st Prototype

ROBOT ARM-2
Industrial Robot
Project

ROBOT ARM-3
Industrial Robot
Project

ROBOT ARM-4.1
Industrial Robot
Project

ROBOT ARM-4.2
Industrial Robot
Project

AMR
Industrial Robot
Project

ROBOT ARM-4.2
Industrial Robot Project

PROJECT START DATE 13.03.2024	PROJECT END DATE Ongoing	GRIPPER WEIGHT 950 g	GRIPPER OPENING WIDTH 85 mm
DIMENSIONS 44 x 75 x 58 cm	NUMBER OF JOINTS 6	PAYLOAD CAPACITY 5 kg	HANDLING MECHANISM Gripper, Vacuum
CONTROL AR Mobile, AR-GUI	EMERGENCY STOP Available	JOINT ROTATION ANGLE ±175°	MOVEMENT SPEED 45°/s
REACH DISTANCE 85 cm			

Joint Structure

Access to all points in the desired direction within the kinematic 80 cm hemispherical workspace consisting of 6+1 joints

Capabilities

- Performs grasping, releasing, placing, and transporting tasks with multi-functional and flexible movement capability.
- Uses adaptive grippers to securely hold objects by wrapping around them externally.
- Can grasp flat and stacked objects efficiently.
- Easily programmable via AR-GUI without requiring engineering knowledge.
- Supports Teach Pendant programming with Space Mouse assistance.
- Avoids obstacles in its environment while executing tasks.
- Stops immediately when a moving object enters a defined safety zone using a virtual barrier system.

AMR
Industrıal Robot Project

PROJECT START DATE 20.02.2024	**PROJECT END DATE** 31.12.2024	**WEIGHT** 230 kg	**BATTERY** Lithium-Ion
BATTERY LIFE 30 Hours	**CHARGING TIME** 2,5 Hours	**DIMENSIONS** 33 x 82 x 110 cm	**AUTONOMOUS CHARGING** Available
AUTONOMOUS NAVIGATION Available	**MAXIMUM SPEED** 0.7 m/s	**CONTROL** AR Mobile, AR-GUI	**EMERGENCY STOP** Available
MAXIMUM LOAD CAPACITY v500: 500 kg, v1000: 1000 kg (Two different versions available.)			

Kabiliyetler

- The robot operates autonomously using a mapping system.
- With its autonomous navigation feature, it can be programmed to move and function without colliding with obstacles.
- The robot manages its operations based on its current power level and determines when it needs to recharge based on a preset battery percentage.
- It can be wirelessly controlled for instant task assignments.
- Designed for automating in-warehouse pallet transport operations.
- Capable of carrying loads up to 1000 kg.
- Built with durable steel, aluminum, and DKP sheet metal, making it highly resistant to industrial environments.
- Equipped with a weight sensor that displays real-time load data on the interface and provides alerts in case of excessive or unbalanced loading.

Service Robot Project

UV-C Sterilization Robot-1 Project

UV-C Sterilization Robot-2 Project

UV-C Sterilization Robot-3 Projesi

Service Robot-P Service Robot Project

Service Robot-1.1 Service Robot Project

Service Robot-1.2 Service Robot Project

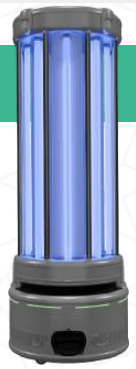
Service Robot-1.3 Service Robot Project

Servis Robotu-3.0 Hizmet Robotu Projesi

UV-C Sterilization Robot-3
Service Robot Project

UV WAVELENGTH 254 nm (UV-C)	**UV COVERAGE AREA** 360°	**AUDIBLE WARNING SYSTEM** Available	**BATTERY** Lithium-ion
OPERATING TIME 5 hours	**CHARGING TIME** 4 hours	**UV FLUORESCENT LAMPS** 8 units – 90 cm	**WEIGHT** 55 kg
DIMENSIONS 52 x 52 x 146 cm	**STERILIZATION DURATION** 15 minutes (30 m²)	**MAXIMUM SPEED** 0.5 m/s	**AUTONOMOUS CHARGING** Available
AUTONOMOUS NAVIGATION Available	**CONTROL INTERFACE** AR-GUI	**EMERGENCY STOP** Available	**SENSORS** LiDAR, Fall Protection, Motion Detection
AUDIBLE NOTIFICATION LANGUAGES English, Turkish			

What Does UV-C Sterilization Robot Do



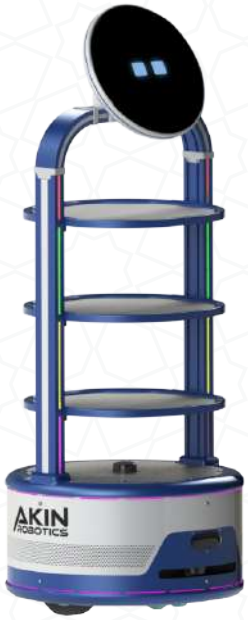
UV-C sterilization robots provide stable and precise disinfection in areas with high indoor and contaminated risk rates. Use of these robots; for hospital rooms and halls, theaters, cafeterias, food companies who require high sterilization, gyms, playgrounds and many more industry offered as the solution.

Service Robot 3.0
Service Robot Project

PROJECT START DATE 14.06.2024	PROJECT END DATE 27.09.2024	WEIGHT 43 kg	BATTERY LITHIUM ION
BATTERY LIFE 8 hours	CHARGING TIME 4 hours	DIMENSIONS 60 x 50 x 146 cm	NUMBER OF SHELVES / SHELF SIZE 3 shelves / 30 cm (Diameter)
AUTONOMOUS NAVIGATION Available	AUTONOMOUS CHARGING Available	MAXIMUM SPEED 1.0 m/s	SCREEN 10.1 Inch
CONTROL AR Mobile, AR-Service	EMERGENCY STOP Available	SENSORS Lidar, Fall Protection	SHELF WEIGHT CAPACITY 5 kg
	VOICE NOTIFICATION LANGUAGES English, Turkish		

What does it do?

- Our robot operates on an autonomous system based on mapping technology.
- With autonomous navigation, it can move and work without colliding with obstacles by being programmed.
- You can control its service tasks through the interface screen.
- With QrMenu integration, the robot can take orders from customers.
- Through Wolvox Restaurant integration, the robot can deliver orders to customers.
- It has the ability to serve tea, coffee, and food to staff and guests. Additionally, it can carry documents, files, and materials between units.
- The robot plans its tasks according to the current charge/power balance, and determines when to recharge based on the set charge percentage.
- Its easy-to-clean surface ensures a more hygienic service.
- It can provide voice notifications for set phrases (e.g., “Enjoy your meal”, “Welcome”).



AKINROBOTICS PRODUCTS

DEVELOPMENT BOARDS

Development boards are used to control any electronic circuits, implement communication protocols and develop software in embedded systems.

BLDC MOTORS

Thanks to the high torque non-reduction motor, high speed, and desired power are obtained. It can be used in many fields such as robotics, industrial, and autonomous vehicles. Thanks to the speed sensors inside the motor, precise speed control can be made when needed. It can be easily mounted thanks to its socket and flange structure.

SMART ACTUATORS

Motor ve Thanks to the intertwined structure of the motor and the reducer, high torques are obtained in a very small area.
It can be used efficiently as a smart actuator in robotics and industry. Thanks to the in-motor sensors, it is precisely controlled with its position control, speed control, and torque control features and gets ahead of its competitors. It can be easily mounted thanks to its socket and flange structure.

Düşük ve Yüksek Hızlarda Yüksek Tork Elde Etme

İstenilen Hız Aralığında Sürebilme

Konum Kontrol, Hız Kontrol, Tork Kontrol Özelliklerini Hassas Bir Şekilde Yapma

Yerli Üretim
Uygun Fiyat
Ar-Ge Tecrübesi

Etkili ve Yüksek Verimde Çalışma

Robotik Projelerinizde Etkili Çözüm

Modüler Tasarımı Sayesinde Karmaşık Projelerde Rahatlıkla Uyum Sağlama

World
First Humanoid Robot Factory
See AKINROBOTICS Dealership Structure and
To Apply for Dealership;
www.akinrobotics.com

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3. PRODUCTIVITY AND TECHNOLOGY FAIR

6. TOURISM TECHNOLOGY DAY

ISAF and IMEX FAIR

INTERNATIONAL DISTOPIAN FILM FESTIVAL

ÇOCUKLAR DUYMASIN (KANAL D)

MİSS GLOBAL EURASİA STARS

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(İstanbul
Airport)

Limak
Limra
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Yükseliş
Koleji

ESER
YENENLER
SHOW
(TV8)

PRODUCTIVITY
AND
TECHNOLOGY
FAIR

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MONDİ

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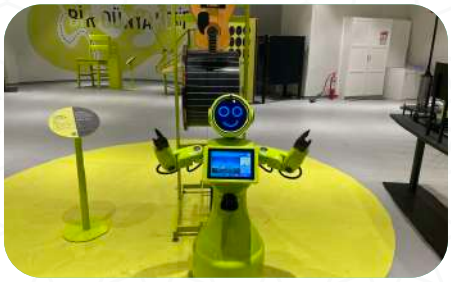
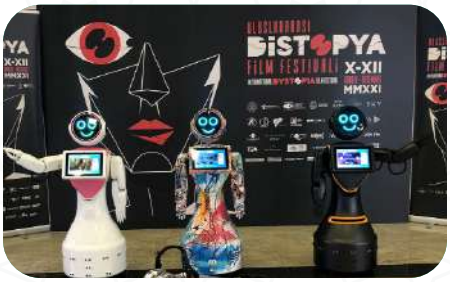
MBA OKULLARI

ÜSKÜDAR BİLİM MERKEZİ



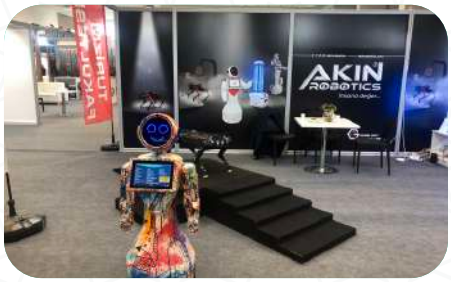


DİSTOPYA FİLM FESTİVALİ

SOBE VAKFI

REFERENCES

İNEGÖL TEKNOLOJİ FESTİVALİ



6. TURİZM TEKNOLOJİLERİ

UNIVERSAL SCI-FI FANTASTIC FİLM FESTİVALİ

VERİMLİLİK VE TEKNOLOJİ FUARI

BANVİT

İSTANBUL ROBOT MÜZESİ

INOVAX in the Media Industry

AKINSOFT's Inovax Magazine, published under the management of the Corporate Communications Department, has brought a fresh perspective to the media sector since it began publication in May 2009. As a magazine focusing on technology, science, and economics, Inovax was initially published quarterly, with four issues per year. In addition to covering AKINSOFT events, the magazine featured current technological developments and news from various industries, and was distributed free of charge to AKINSOFT Solution Partners and customers across all 81 provinces of Türkiye.

Starting in 2021, Inovax Magazine has been published once a year in bulletin format, and as of 2024, it continues to produce content exclusively online.

Our Websites

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- www.akınsoft.com.tr
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Özgür AKIN, Ph.D.

AKINSOFT - AKINROBOTICS Chairman of the Board

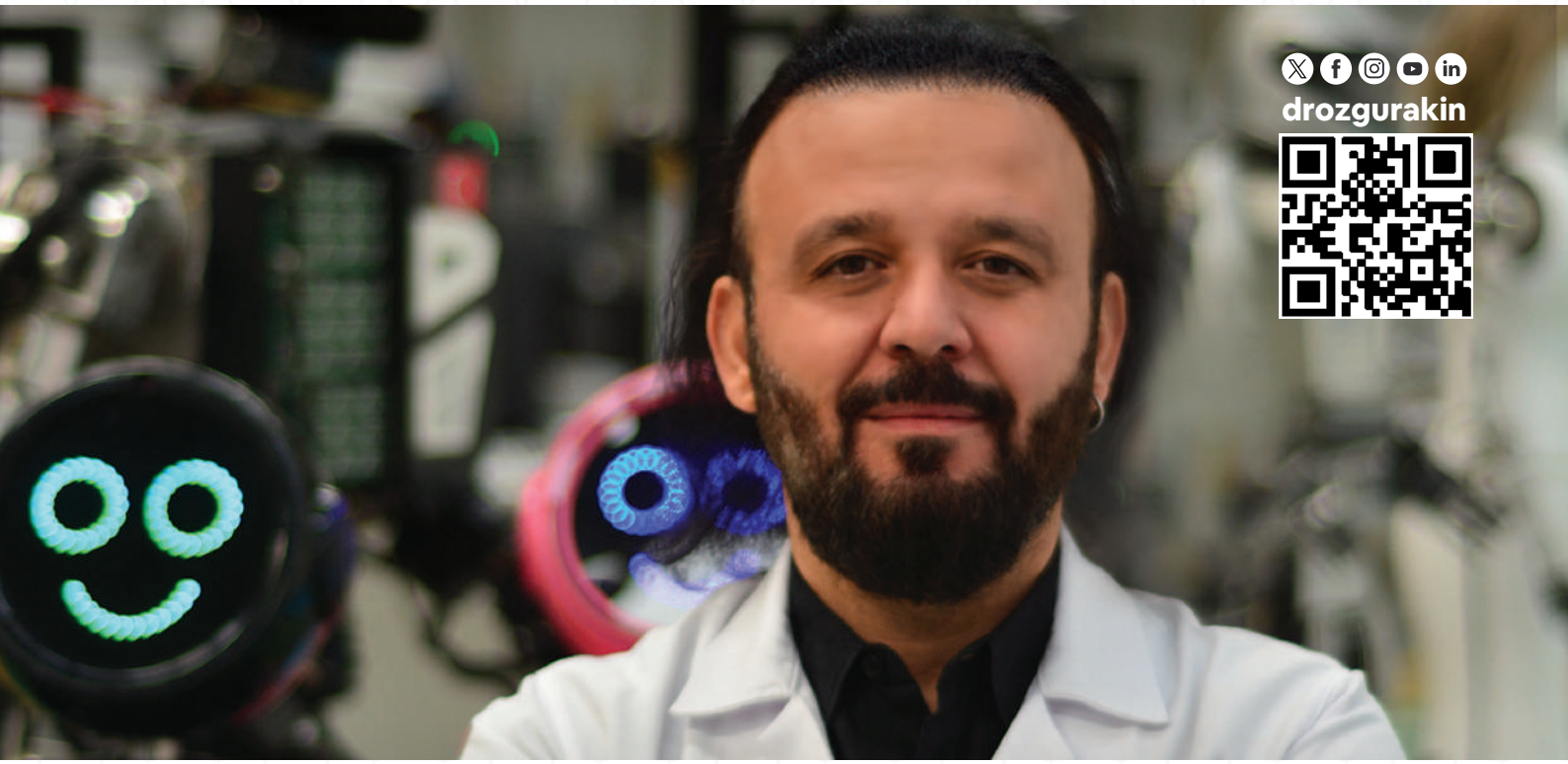
He founded AKINSOFT on April 12, 1995. He graduated from Selcuk University with a degree in Computer Engineering, completed master's degree in Industrial Engineering and doctoral degree in Robotics Technologies at the Institute of Science. He made AKINSOFT one of the biggest software companies of Turkey through over 120 commercial and sectoral programs he developed, especially ERP E-Business software, exporting software supported in 16 different languages to 36 different countries.

In 2009, he started R&D activities on humanoid robots with the robotics department he established as a part of AKINSOFT. He blazed a trail developing the Turkey's first humanoid robot prototype 2-legged AKINCI series, agricultural robots PNCR series, service robots ADA series, hostess series Mini ADA and field robot ARAT series. Moreover, he opened Cadde Meram Cafe & Robotics Applications Center which is the first cafe in Turkey that the humanoid robots serve at. He achieved another international success by opening the "World's First Humanoid Robot Factory", AKINROBOTICS, which he had laid the foundations for in 2015 for the mass production of the prototypes he developed, in 2017.

At the same time, he opened the "World's First Humanoid Robot Museum" in Istanbul, where all the works carried out by AKINROBOTICS in the field of robotic technologies since 2009 are exhibited. In addition, with cooperation of AKINROBOTICS and BAHÇEŞEHİR UNIVERSITY, Artificial Intelligence and Robotics Technologies Master's Program is opened and realized its 2023 vision.

He held more than 100 seminars under the name of "Touch Your Utopia" in many institutions and organizations, especially in Universities, Chambers of Commerce and Industry. In addition, Özgür Akın, Ph.D is the author of book which name is "Touch Your Utopia", in the 2014-2015 academic year; He gave lectures as a lecturer in the Department of Mechatronics Engineering at the Faculty of Engineering of Karatay University.

As well as having hobbies such as skiing, sailing, diving, mountaineering, photography, writing poetry, playing musical instruments, horse riding, motor sports and playing tennis, Özgür Akın, Ph.D is also known for its animal lovers aspect. Known for his strong social personality besides the scientist identity Özgür Akın, Ph.D continues to work with the aim of serving science and humanity.



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