



# AKINROBOTICS

## INTRODUCTION CATALOG

2009-2025



All promotions and reference information forms in this catalog were issued on January 29, 2025.  
Statistics may change due to the dynamic structure of the company. To get more updated information; You can visit [www.akinrobotics.com](http://www.akinrobotics.com).

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# 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<sup>2</sup> and a closed working area of 3800 m<sup>2</sup>, 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

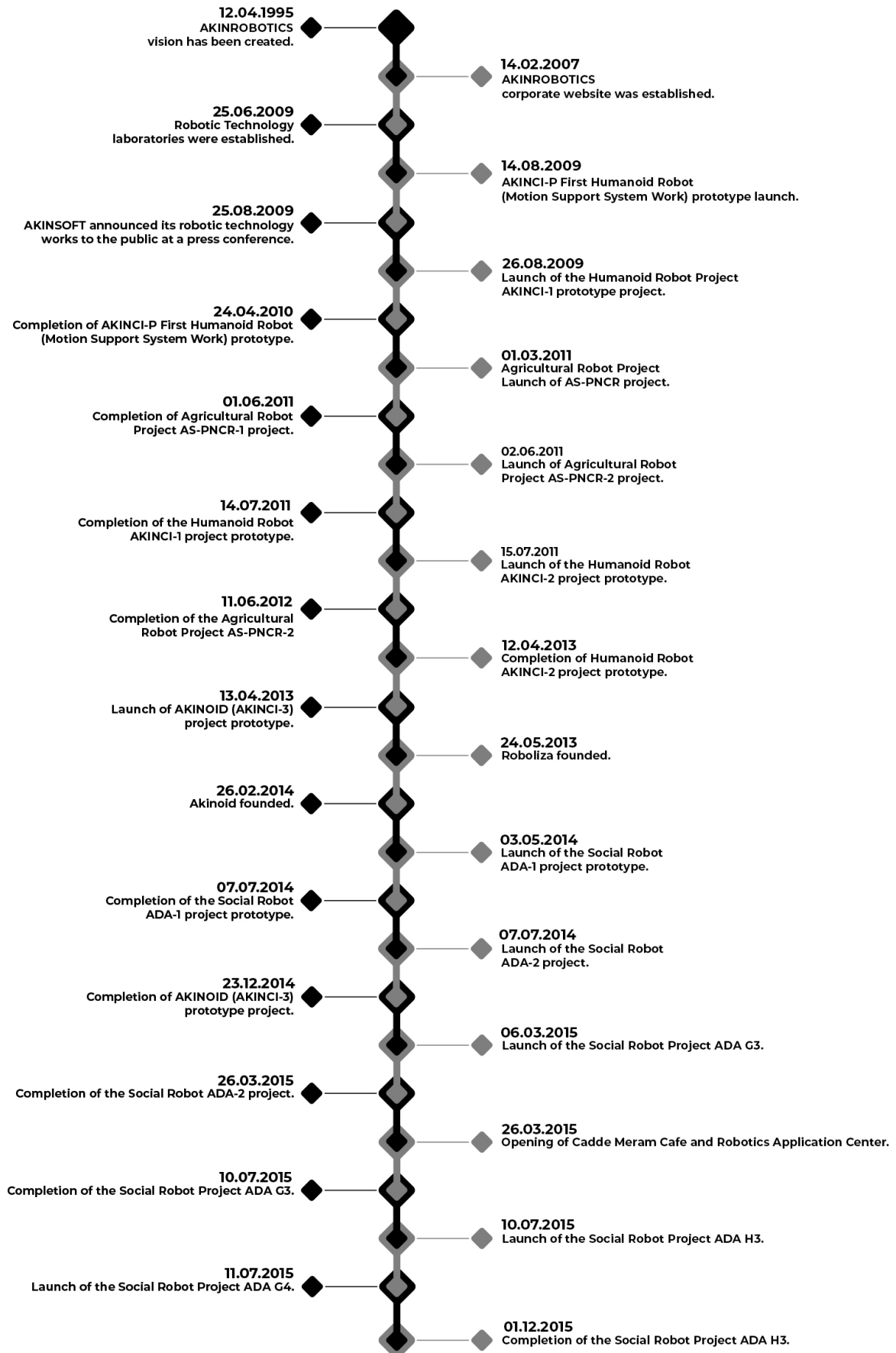


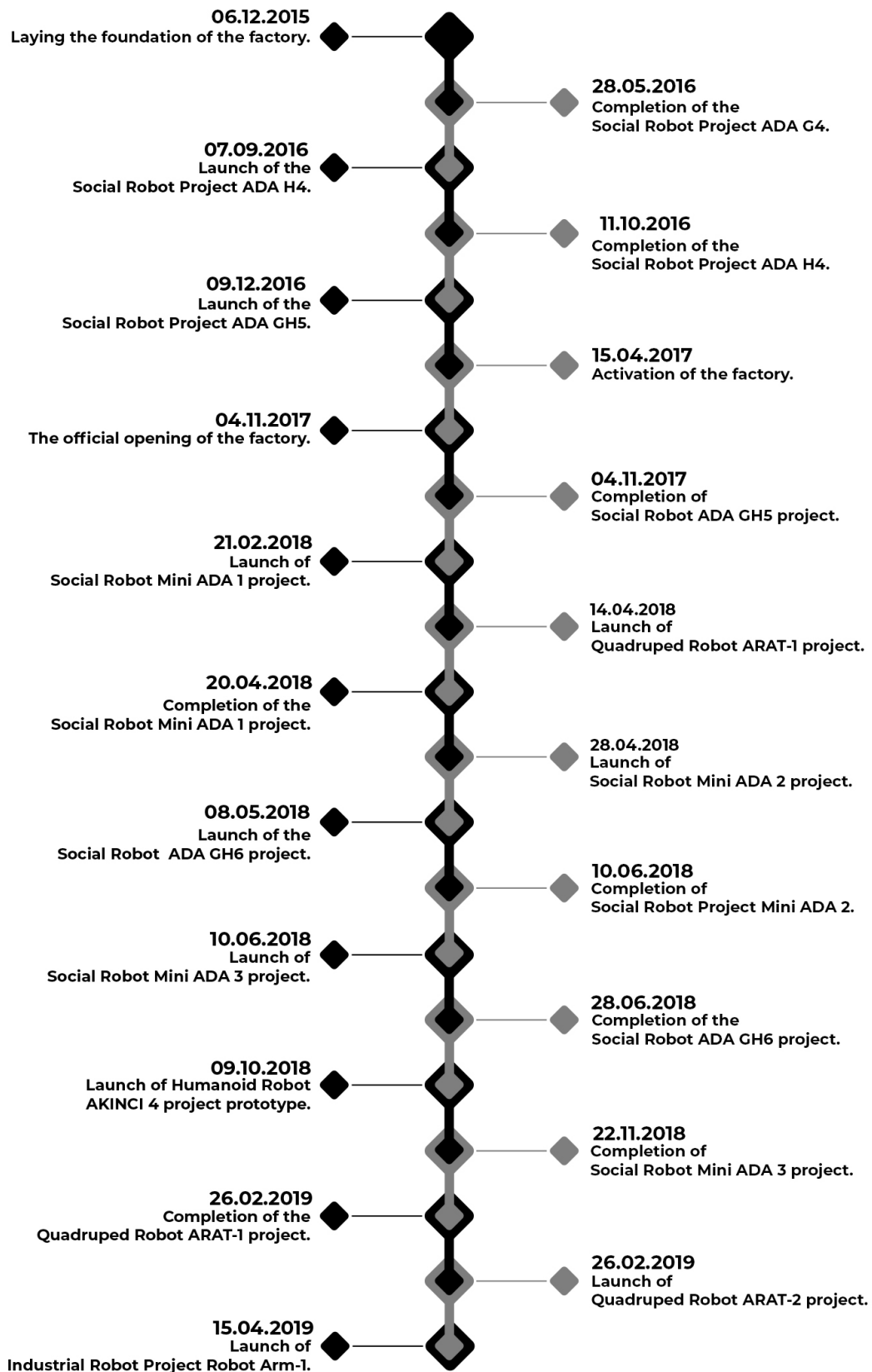
## AKINSOFT Istanbul Regional Directorate

- 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.

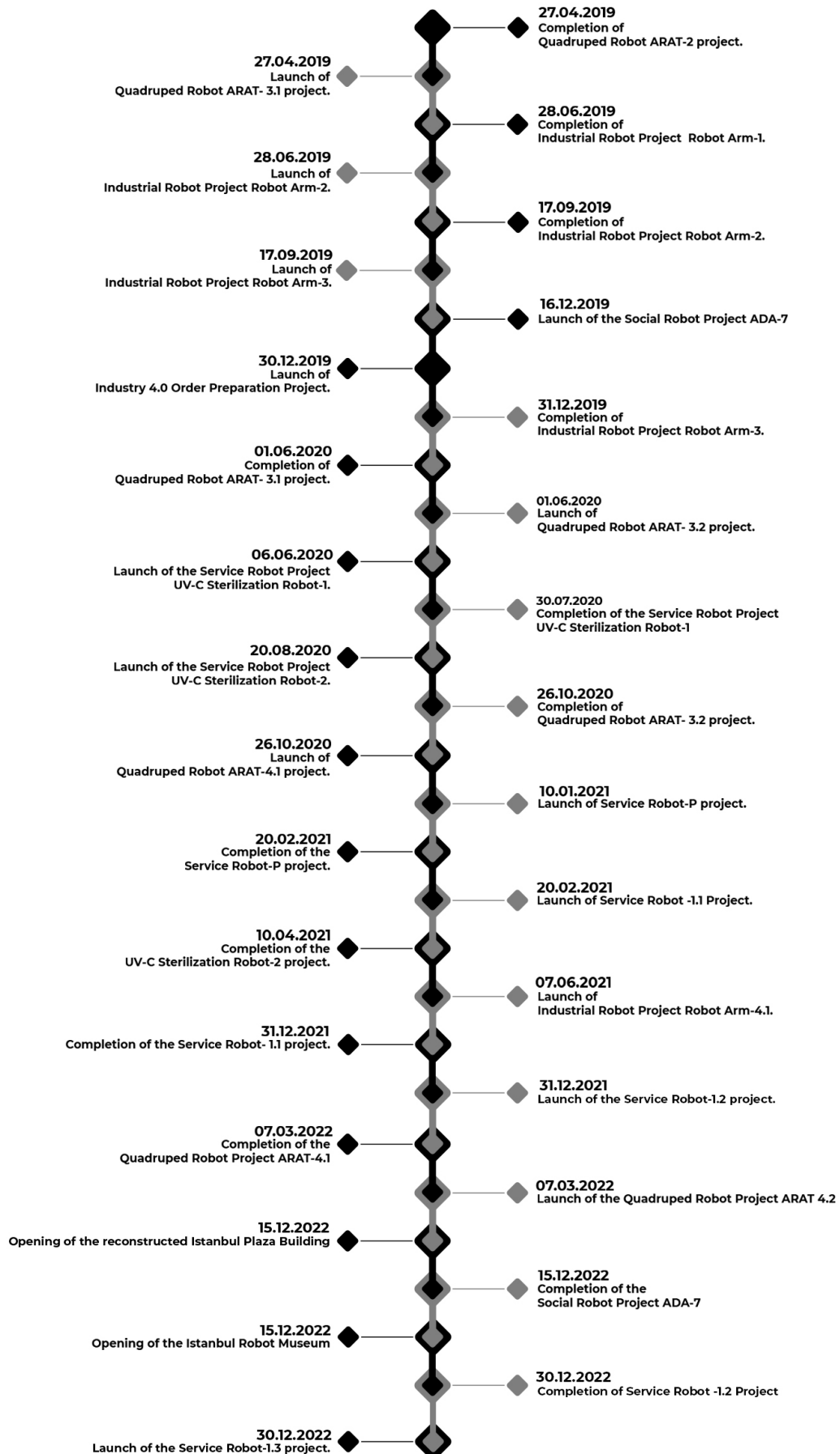


# AKINROBOTICS HISTORY









# 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 minimizing 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 negativities 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 technologies 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.

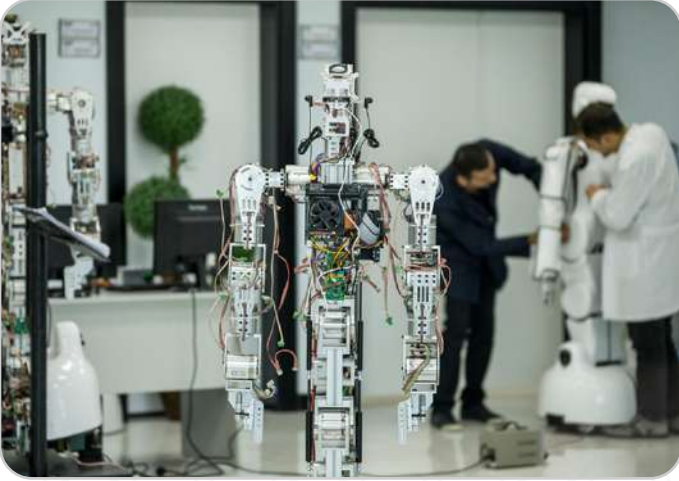


**AKIN introduced the social robot Ada GH5, developed under the umbrella of AKINROBOTICS in order to serve humanity,** and talked about the intense contributions of AKINROBOTICS to Turkey's Technology and the development and stages of this important step taken on behalf of Robotic Technologies. He emphasized 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 22-year-old vision, which AKINSOFT had determined as "to work in the field of "Robotic Technologies" in 1995 and started to work in 2009.





**DÜNYA'DA  
İLK**

**SERİ  
ÜRETİM  
ROBOT**

**YALIN  
ÜRETİM**

**%100  
YERLİ  
ÜRETİM**

**SİSTEMATİK  
YAPILANMA**

**ÖZ  
SERMAYE**

**İDEALİST  
BAKIŞ  
AÇISI**



# Working Environment





## Technical Tour

The world's first humanoid robot factory, AKINROBOTICS, invites you to experience the excitement of the production process of the robots produced. AKINROBOTICS opens its doors to tech-savvy students of all ages from different educational institutions. It hosts hundreds of guests from various institutions and organizations of our country with technical tour organizations. AKINROBOTICS, which continues to grow, develop and renew rapidly with each passing day, will offer its guests the opportunity to see the work it has done in the field of robotic technologies with the technical tours that will organize from time to time. Witness all the works closely, accompanied by expert guides in own fields.





# 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**



**ENES BATUR**



**HABERLER.COM**



**HÜRRİYET**



**İHA**



**KANAL D**



**RUHİ ÇENET**



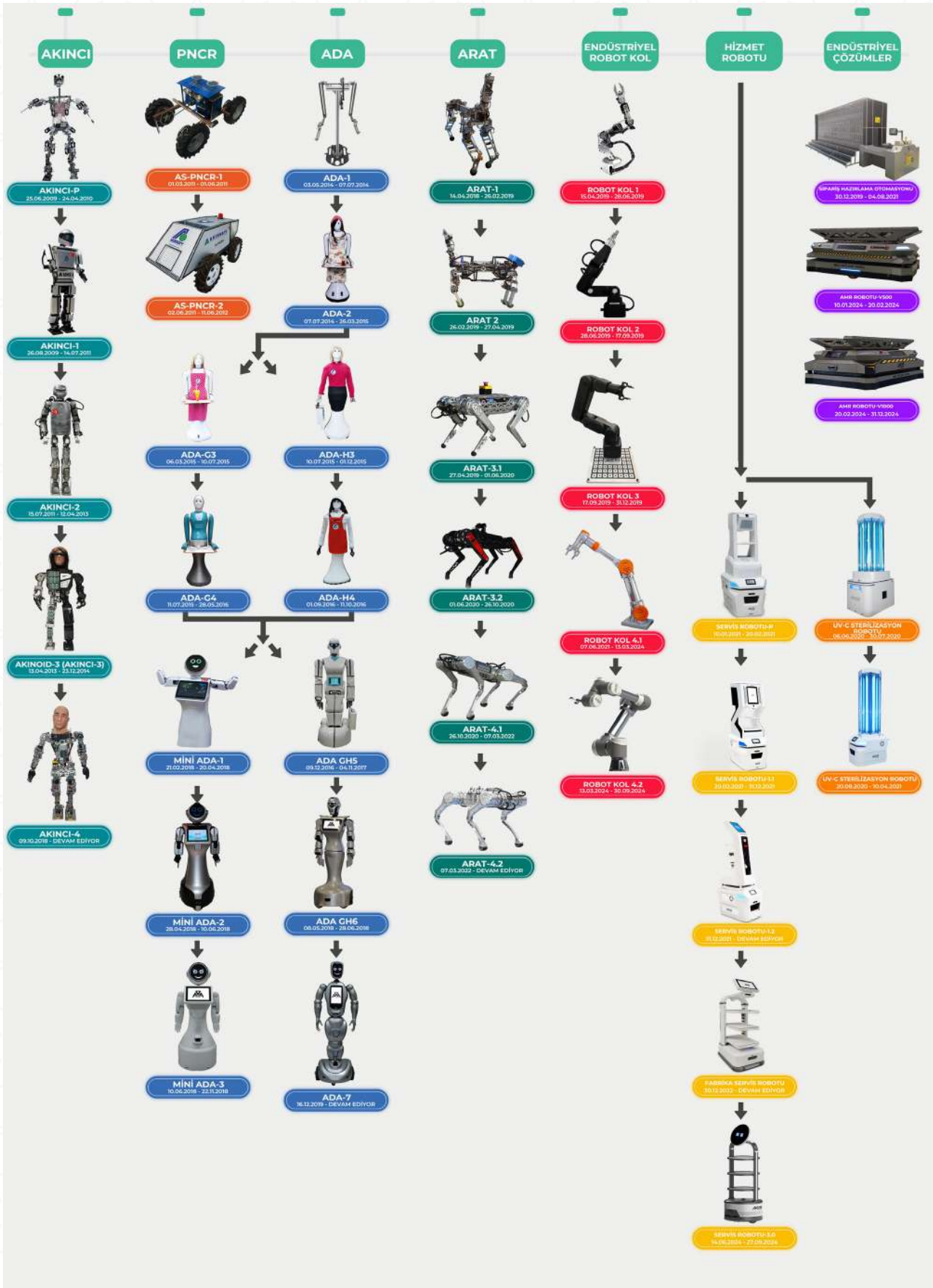
**SABAH**



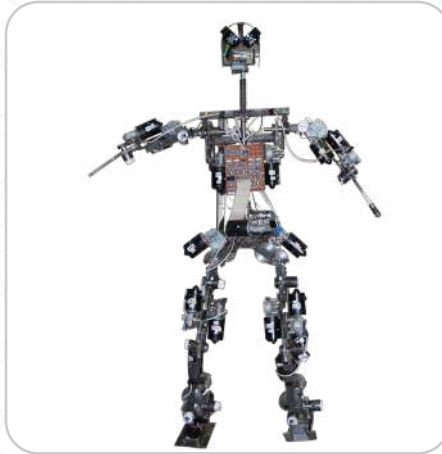
**TGRT**



# 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**

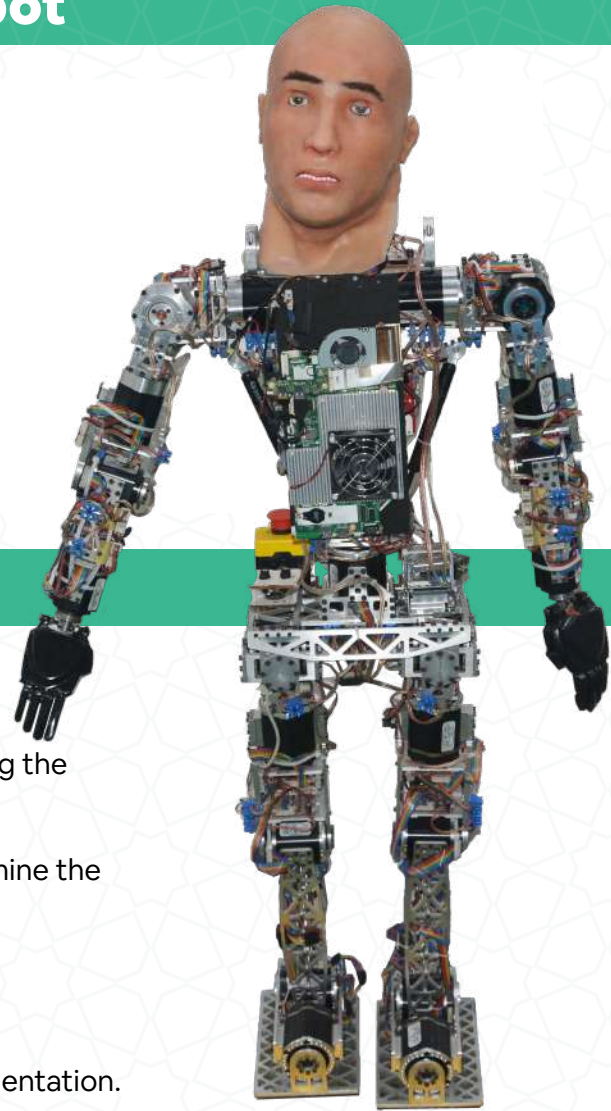


**AKINCI-4  
Humanoid Robot**



# AKINCI-4 Humanoid Robot

▶ <b>09.10.2018</b> Project Start Date	<b>ONGOING</b> Project End Date
⚖ <b>48 KG</b> Weight	↑ <b>150 CM</b> Lenght
🔋 <b>LITYUM IYON</b> Battery	🔋 <b>5 HOURS</b> Battery Life
🗣 <b>Language</b> <b>Turkish/Multi-Language Support</b> <b>(English, Russian, Arabic)</b>	1/2 <b>2 UNITS</b> Production Quantity

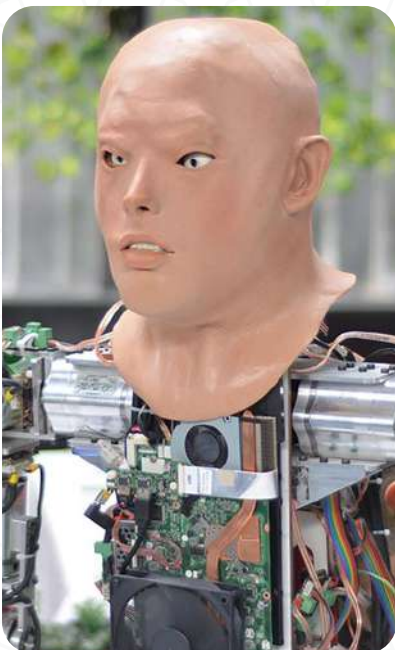


## Abilities

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**

$\frac{1}{3}^2$  **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**

1<sup>2</sup> **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

▶ <b>01.09.2016</b> Project Start Date	<b>11.10.2016</b> Project End Date
⚖ <b>40 KG</b> Weight	↑ <b>150 CM</b> Lenght
🔋 <b>GEL BATTERY</b> Battery	🔋 <b>22 HOURS</b> Battery Life
💬 <b>Language</b> <b>Turkish</b>	<sup>1</sup> / <sub>2</sub> <b>5 UNITS</b> 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 AKIN-SOFT'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 by perceiving the depth 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 Length
🔋 LEAD ACID Battery	🔋 10 HOURS Battery Life
📏 100 CM Width	↕ 87 CM Height
🕒 2.8 KM/H Speed	1/2 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?

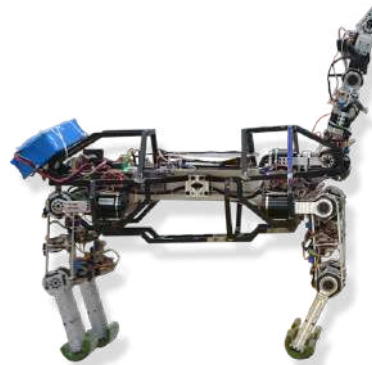


The first robotic system that designed and produced by AKIN-SOFT Robotic Department and announced in May 30, 2011, PNCR-1 and successful result of ongoing R&D works agricultural robot prototype PNCR-2 has been placed in AKINSOFT and the world history. Beet planting is a process that should be taken care 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.

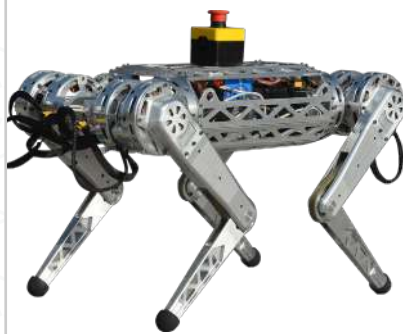
# QUADRUPEL ROBOT PROJECT



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

## Industrial 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**



**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-2 Service Robot Project

<b>UV WAVELENGTH</b> 254 nm (UV-C)	<b>UV COVERAGE AREA</b> 360°	<b>VOICE WARNING SYSTEM</b> Available	<b>BATTERY</b> Lithium Ion
<b>BATTERY LIFE</b> 8 Hours	<b>CHARGING TIME</b> 4 Hours	<b>UV FLUORESCENT TUBES</b> 90 cm – 8 units	<b>WEIGHT</b> 54 kg
<b>DIMENSIONS</b> 40 x 60 x 143 cm	<b>STERILIZATION TIME</b> 15 minutes (30m²)	<b>MAXIMUM SPEED</b> 0.5 m/s	<b>AUTONOMOUS CHARGING</b> Available
<b>AUTONOMOUS NAVIGATION</b> Available	<b>CONTROL</b> AR-GUI	<b>EMERGENCY STOP</b> Available	<b>SENSORS</b> Lidar, Fall Protection, Human Detection
<b>VOICE NOTIFICATION LANGUAGES</b> 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.



### SESLİ UYARI SİSTEMİ

Sterilizasyon işlemi öncesi ve sonrasında veya hareketli cisim algılandığında sesli olarak uyarır.

### 8 ADET UV-C FLORESAN

254 nm dalga boyuna sahip 8 adet UV-C floresan ve 360 derece etki alanı ile sterilizasyon sağlar.

### BİLGİLENDİRME EKRANI

Cihazın şarj kapasitesi, lamba ömrü gibi birçok bilgilendirmenin bulunduğu ekrandır.

### DURUM IŞIKLARI

Üzerinde bulunan led ışıklar sayesinde aktif olduğunda yeşil, engel algılandığında kırmızı ışık yakar.

### LİDAR-OTONOM GEZİNME

LİDAR sayesinde çevresindeki nesneleri algılayarak haritalandırır ve otonom gezinme sağlar.



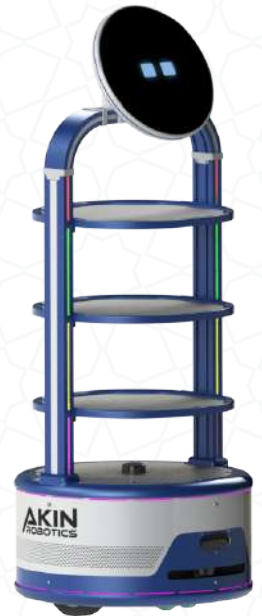
# Service Robot 3.0

## Service Robot Project

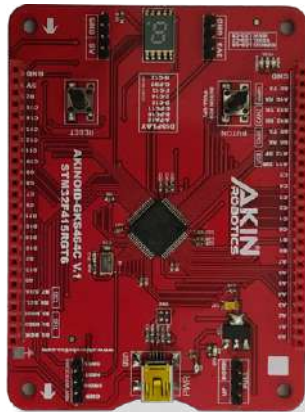
PROJECT START DATE 14.06.2024	PROJECT END DATE 27.09.2024	WEIGHT 43 kg	BATTERY LITHIUM ION
BATTERY LIFE 8 hours	CHARGING TIME 4 hours	DIMENSIONS 60 x 50 x 146 cm	NUMBER OF SHELVES / SHELF SIZE 3 shelves / 30 cm (Diameter)
AUTONOMOUS NAVIGATION Available	AUTONOMOUS CHARGING Available	MAXIMUM SPEED 1.0 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.





**World**  
**First Humanoid Robot Factory**  
See AKINROBOTICS Dealership Structure and  
To Apply for Dealership;  
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**ESER  
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SHOW  
(TV8)**



**PRODUCTIVITY  
AND  
TECHNOLOGY  
FAIR**





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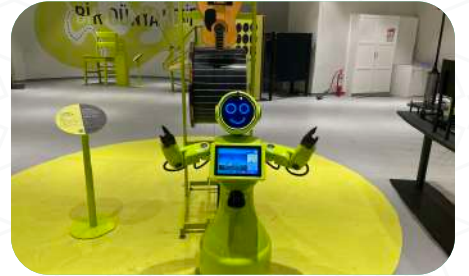
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**VERİMLİLİK VE  
TEKNOLOJİ FUARI**



**BANVİT**

**İSTANBUL  
ROBOT  
MÜZESİ**





# INOVAX in the Media Industry

The magazine with the content of technology, science and economy called Inovax, which was published under the management of AKINSOFT's Corporate Communications Department and started to be published in May 2009, brought a new breath to the media sector. The magazine, which is published in quarterly periods 4 times a year, includes AKINSOFT activities as well as current technological developments and some industry news. INOVAX, which is sent free of charge to AKINSOFT Solution Partners and customers in 81 provinces of Turkey, is also included in the mobile applications of Turkcell, Vodafone and Türk Telekom; It is also delivered to companies, public institutions and organizations, associations and chambers.



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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 7 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 BAĞÇEŞEHİR 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 Akin, 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 Akin, Ph.D is also known for its animal lovers aspect. Known for his strong social personality besides the scientist identity Özgür Akin, Ph.D continues to work with the aim of serving science and humanity.





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