AI + ROBOTICS SOLUTIONS

## WELCOME TO LINK GULF - AI & ROBOTICS

Founded in 2020 in the UAE, Link Gulf is the result of over 20 years of experience in supplying cutting edge and emerging technology to the education, healthcare, government, defence and industrial sector.

With diverse expertise in: Material Science, Forensic, Nanotechnology, Robotics / AI, Drone Technology, Wearables, Motion Capture Systems, Additive Manufacturing, Reverse Engineering and Lab instruments, Link Gulf has successfully completed projects in the GCC, Middle East and Northern Africa.

Our mission is to build long term relationships with scientists and engineers in the region by providing high quality solutions, technology and services from our renowned OEM partners.
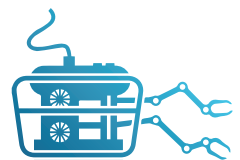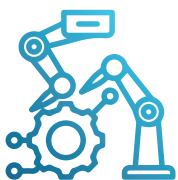
ANALYTICS
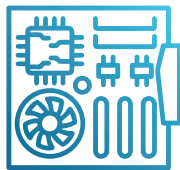
DEVELOPMENT KITS

ARTIFICIAL INTELLIGENCE

GPU COMPUTING

INDUSTRIAL ROBOTICS
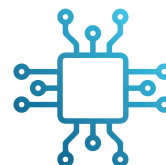
COBOTS

MOTION CAPTURE

COMPONENTS

UNDERWATER RESEARCH

YOUR GATEWAY
ADVANCED TECHNOLOGY IN THE MENA REGION

OUR SOLUTIONS

Cutting-Edge Technology From Link Gulf

At Link Gulf, we are at the forefront of merging science and technology, bringing together innovation, excellence, and a strong commitment to quality. As a leading provider of comprehensive solutions, we cater to a wide range of industries, including Oil & Gas, Industry, Education, Health Care, Government, and Defence. Our expertise spans various disciplines, such as Analytical and Material Science, Forensics, Robotics, Artificial Intelligence, Additive Manufacturing, Virtual and Augmented Reality, Electronics, and Biomechanics.

Our impact extends across the Middle East and North Africa, where we have completed significant projects. These cutting-edge technology solutions have not only transformed our customers' operations but also fostered progress and innovation in the region. As agents of transformative change, we drive the growth and advancement of businesses, governments, and institutions. Through strategic partnerships with leading technology companies and a proven track record of success, we provide top-notch, cost-effective solutions tailored to the unique needs of scientists, engineers, and researchers.

In the ever-evolving realm where science and technology intersect, Link Gulf serves as a guiding force, leading industries, businesses, and forward-thinkers towards a future filled with endless possibilities. We invite you to join us on this exciting journey as we continue to shape the landscape of science and technology, one breakthrough at a time. Together, we are pioneers, champions of progress, and collaborators in shaping a brighter tomorrow.

Step into the world of Link Gulf, where the fusion of science and technology ignites boundless opportunities for the future.

With very best wishes

The Link Gulf Team

MOBILE ROBOTS

IMR / UGV /ODP / RIS

CLEARPATH

Clearpath Robotics are the developers and suppliers of a unique fleet of mobile robotic platforms. These systems enable researchers and corporations to accelerate their robotics R&D function.

The company's mission is simple, "Boldly go where no robot has gone before". In order to achieve these goals, Clearpath Robotics have created the world's best robot development platform, and yet, they make it easier than ever before to work with.

The company provides a range of products for both indoor and outdoor use. They even create boats if you ask nicely! Please feel free to contact the Link Gulf team for further information. We love to talk robots!

MOBILE ROBOTS

IMR / UGV /ODP / RIS

HUSARION

A general-purpose, heavy-duty outdoor mobile robot platform for applications in agriculture, construction, surveliance sectors and many more. Husarion provide mobile robotic platforms, software and connectivity solutions which allow you to build your own autonomous systems based on ROS & ROS 2 easily and efficiently.

Our robust, autonomous, mobile robots can be used as a base platform for a variety of AMR (Autonomous Mobile Robots) applications. Building and scaling your project to create real-world solutions is made easy through the use of simulation models, along with an extensive array of tutorials and manuals.

Husarion have vast experience in designing and building autonomous mobile robots (AMR) dedicated for agriculture, construction, logistics and others.

The Go-to Platform for ROS Education

ROSbot XL, ROSbot 2R / 2 PRO are autonomous, open source robots can be used as a learning platform for Robot Operating System (ROS). ROSbot offers not just the hardware platform itself but a full scope of educational tools such as: development platform, online tools, simulation models and a wide range of dedicated tutorials and manuals which will make the learning process smooth and efficient.

HUSARION

QUADRUPED ROBOTS

## MULTI-TERRAIN SOLUTIONS

DEEP ROBOTICS

Breaking New Boundaries in Quadruped Robotics - The X20 quadruped robot solution is for industrial patrol inspection under extreme working conditions. With industrial-grade water and dust resistance, strong load, and smart perception, users can complete unmanned autonomous inspection with a robot dog in a large environment.

Terrain Adaptability - Easily adapts to complex environments such as 20cm obstacles and stairs, 30° slopes, grass, sand, snow, gravel, standing water, etc.

Precise Perception - X20 can support precise navigation, dynamic obstacle avoidance, terrain recognition, human-robot interaction, and other functions.

All-Weather Operation - IP66 dust & water resistance for adverse conditions.

Powerful Adaptibility - Embrace the limitless possibilities offered by X20's modular design. X20 allows for the seamless integration of peripherals, backed by a plentiful supply of interfaces.
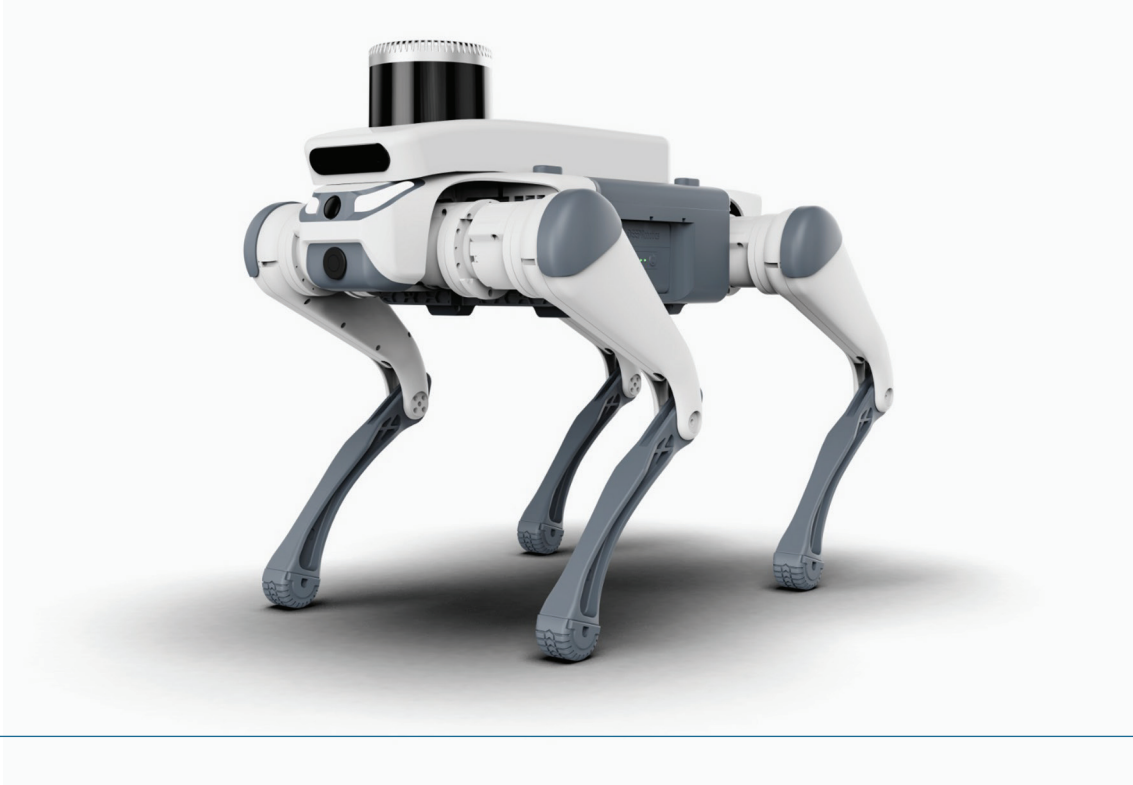
DEEPRobotics

HUMANOID ROBOTS
PROGRAMMABLE, FLEXIBLE COMPANIONS

ALDEBARAN

Aldebaran United Robotics Group, formerly known as SoftBank Robotics Europe, is the leader in humanoid robotics, manufacturer of iconic robots NAO and Pepper. More than 40,000 of their social and interaction robots are used in more than 70 countries, in various sectors, ranging from retail to tourism, health, and education.

NAO - NAO was conceived to move and adapt to his environment, thanks to the 7 touch sensors placed all over his build. A great communicator, his omnidirectional microphones and his speakers allow him to engage in enriched dialogues and interactions. NAO can listen and understand in all kinds of situation and can speak clearly in more than 20 languages.

Equipped with two 2D cameras, he can recognize shapes, objects and even people, enhancing interactivity. Standing at 58cm tall, NAO is the perfect teaching assistant. His looks makes him very engaging to pupils of all ages and teachers.

PEPPER - Pepper's natural movements and perception modules, and his height of 120 cm allow him to easily interact and engage with people. Pepper is capable of communicating in 20 languages, which makes him usable all over the world.

Equipped with Infrared sensors, bumpers, 2D and 3D cameras and sonars, Pepper is able to perform autonomous navigation. Pepper is a fully programmable platform that is perfect to conduct research on robotics, study artificial intelligence, or develop applications.

ALDEBARAN
UNITED ROBOTICS GROUP

COBOTS

RESEARCH + DEVELOPMENT SYSTEMS

FRANKA ROBOTICS

Franka Robotics is a robotics design and devlopment company known for its collaborative and adaptable robots like the Panda and Research, designed for diverse industries with a focus on user friendliness and safety. Whether for industrial production or research and development, Franka Robotics have you covered with one of our dedicated products.

Franka Production 3 - The robotic automation tool for industry and beyond. Franka Production 3 is the industry certified system that easily turns process expertise into robotic automation – thanks to straightforward operation and powerfully intuitive interfaces. Plug-and-use setup, simple connectivity and easy programming via modular App building blocks help you pay back your investment and scale it as fast as possible.

Franka Research 3 - The platform of choice for cutting edge AI & Robotics research. Franka Research 3 empowers researchers with a unique combination of market leading physical interaction features, powerful control interfaces*, unmatched data transparency, ease of use for a quick time to delivering results, and the largest and most active community of the world's most innovative robotics researchers.

FRANKA ROBOTICS
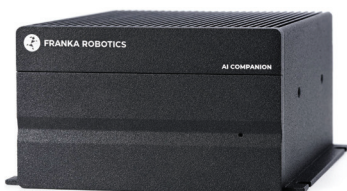
ROBOTIC ARMS
INDUSTRIAL ROBOTIC SOLUTIONS

KUKA

Whether you're looking for a new robotic solution or a cost-effective option through our network of available used robots, Link Gulf have you covered for all your automation needs.

Industrial Robots - KUKA offers a comprehensive range of industrial robots. You will always find the right one, no matter how challenging the application.

Production Systems - KUKA is widely known as a robot manufacturer – but we have just as much competence in the conception, planning and implementation of production systems. Link Gulf are experts in system integration – be it for an individual production cell or a complete production system.

Autonomous Mobile Robotics (AMR) - Mobility is an important driver of Industrie 4.0. KUKA develops mobility concepts for the next stage in the evolution of more flexible industrial production. In the cyber-physical world of Industrie 4.0, established structures are becoming a thing of the past. Static production facilities and assembly lines are obsolete. KUKA develops intelligent, mobile units that work together perfectly and find their destination autonomously.

Process Technologies - KUKA customers benefit from our profound experience of various process technologies which we are constantly upgrading and optimizing. From special welding processes to soldering and other joining techniques, you will find descriptions of all the KUKA process technologies here

KUKA

UNDERWATER ROBOTICS
IMAGING / RESEARCH / ROVS

BLUEYE

Professional underwater ROVs designed, developed, produced, and serviced in Norway. Reliable and user-friendly underwater technology for frictionless access to what's below the surface.

Millions of dollars could be saved, accidents reduced, marine life improved, and knowledge enhanced if underwater inspections were made more frequently.

Blueye believe in acting proactively versus reactively. Therefore, they empower people with user-friendly and robust underwater technology.

Blueye has its roots in the highly renowned Centre for Autonomous Marine Operations and Systems (AMOS) at NTNU in Norway. Exceptional ease of use and robustness has been the overarching design goals since the beginning of the company. Drawing on competence from world-leading marine engineers, seasoned software developers and award-winning industrial-, mechanics- and electronics designers they have created what we at Link Gulf strongly believe are the world's best underwater drones.

blueye

UNDERWATER ROBOTICS
IMAGING / RESEARCH / ROVS

QYSEA

FIFISH Underwater Drones are an advanced series of world-leading small to mid-sized Remotely Operated Underwater Vehicles (ROV), developed and manufactured by Qysea and Link Gulf are proud to be able to supply these unique systems in the Region. These solutions provide a truly professional and immersive underwater operating experience. FIFISH Underwater Drones are operated around the World in a variety of uses. From photographers, filmmakers, and enthusiasts, to researchers, educators, and industry specialists, we have the solutions to achieve your goals.

Qysea is committed to delivering its exceptional expertise in R&D, manufacturing, and sales of underwater drones. Qysea is in a leading market position with its FIFISH underwater drone technologies, proudly garnering various awards for its innovativeness (Future Maker, GIC, CES) and functionality (iF Design, Good Design).

Are you looking for a greater ability to connect with the underwater world, its inhabitants and ecosystems? The Qysea approach to underwater technologies aims to provide access to systems and tools that generate a greater awareness of ocean-related issues and topics. So, why not immerse yourself in the deep blue sea (or a lake or river), and discover the possibilities that await?

FIFISH Underwater Drones will enhance your experience and ultimately broaden your understanding of the sub-aquatic world.

ROBOTIC COMPONENTS
2D + 3D LIDAR / MICRO-CONTROLLERS / DEPTH CAMERAS

LEADING ACCESSORIES FOR DEVELOPERS

At Link Gulf we are able to supply the highest quality development components and programming devices to suit our entire raneg of robotic devices.

To find out more - visit our website at www.link-gulf.com or call our team to discuss your requirements.

Blickfeld CUBE · HOKUYO · robosense · SICK · OUSTER · Velodyne

MOTION CAPTURE
CAMERA SYSTEMS / HARDWARE / SOFTWARE

XSENS BY MOVELLA

Motion, Captured Anywhere - Get clean MOCAP data in any environment. In the studio, the office or outside. Your MOCAP system is up and running in minutes. Xsens' tiny motion trackers capture the smallest twitches to high dynamic movements. From filmmakers to physiotherapists, Xsens motion capture systems are helping professionals around the world to digitize movement. Either to gain the insight to improve well-being or performance, or to create the characters and VFX that bring content producers' visions to life.

Xsens Motion Capture Hardware - We offer three MOCAP hardware options: MVN Link, MVN Awinda and MVN Awinda Starter. All set-ups use 17 sensors and provide Xsens high-quality MOCAP data. Choose one according to your specific motion capture needs, application, and budget. And capture even more detail with our Xsens Metagloves by Manus.

Xsens Motion Capture Software - The software records, monitors, and reviews movement. What's more, users can capture anywhere, in any environment, with total reliability. Xsens motion capture software is available in two versions. MVN Animate for entertainment applications and MVN Analyze for health and sports, and research. We also offer cloud-based solutions to process and store data, or to generate reports.

Whether it's live connections or motion capture data files, integration has never been this easy. Xsens full-body motion capture systems integrate directly into your pipeline and we have all the integrations you need for your applications.

XSENS
by *Movella*™

MOTION CAPTURE
CAMERA SYSTEMS / HARDWARE / SOFTWARE

QUALISYS

Qualisys is a top provider of high-precision motion capture systems used in sports, healthcare, research, and more, offering advanced optical cameras and software for accurate movement analysis and performance enhancement.

Arqus - Extreme Performance - The industry's highest-performing motion capture camera platform. The platform provides superior resolution, maxed out frame rates and anything in-between. More importantly, Arqus advanced marker detection algorithms provide exceptional accuracy.The most Arqurate camera in the world. Accuracy is very important to Qualisys. That's why Qualisys made Arqus their most accurate camera to date. Qualisys also launched the highest resolution camera in the industry – by a mile.

Miqus - Capture More, With Less - Miqus – refined motion capture camera | Qualisys The Miqus camera is Qualisys smallest and most refined motion capture camera yet. It fits everything you need for your next motion capture project in a small and lightweight camera body. Motion capture for small and large projects. Just like all Qualisys mocap cameras, the Miqus cameras are designed to capture accurate mocap data with very low latency. This makes the Miqus suitable for a wide range of applications. From small 3-camera educational systems up to large projects with +100 cameras.

The Power Of Arqus - Underwater - Qualisys underwater cameras are the world's only commercially available optical motion capture cameras for underwater use. Qualisys underwater cameras are designed for mobility, robustness and trouble-free operation. All cameras are pressure tested to a depth of 40m. Weight and volume are balanced to give the camera neutral buoyancy for easy handling in water.

QUALISYS
Motion Capture Systems

AERIAL DRONES

INDOOR QUADCOPTERS / DEVELOPMENT SYSTEMS

BITCRAZE

Bitcraze develop and manufacture a small quadcopter called the Crazyflie. They also develop and maintain a supporting infrastructure with various clients, expansion decks, debuggers, development environments and tools. The 'Crazyflie' is a versatile open source flying development platform that weighs only 27g and fits in the palm of your hand.

The latest version of the successful Crazyflie development platform comes with improved flight performance, durability and radio. Together with an extensive ecosystem of software and deck expansions it's ideal for education, research and swarming.

Speak to a member of the Link Gulf team to find out more about this amazing product and the developnment options available.

bitcraze

GPU COMPUTING
WORKSTATIONS / SERVERS

AMAX

AMAX Engineering specializes in IT infrastructure solutions focused on AI, industrial computing, and advanced liquid cooling technologies. At Link Gulf, we believe that AMAX solutions provide the highest levels of quality and build in the marketplace today.

We are proud to represent AMAX products in our portfolio. Their ability to transform IT components into specialized products, through intelligent engineering design, is second to none.

AMAX's engineering expertise applies to, but is not limited to, electrical, mechanical, and thermal design customization to meet each unique computing application requirement. This quality-first approach is at the core of AMAX Engineering's solution development process that spans across concept ideation, material management, validation, manufacturing, deployment, and service.

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UAE HEADQUARTERS