



شركة مساندة المتقدمة
Advanced Mosanada Co.



ABOUT US,,

A Saudi company specializes in optronic systems, Including Thermal vision and Lasers systems, and electromechanical systems. The company was established in March 2018, in response to the Kingdom's Vision 2030.



Mission

Using latest technology
to make the best
products



Vision

To be the leading
company in MENA in
optronics systems
before 2030

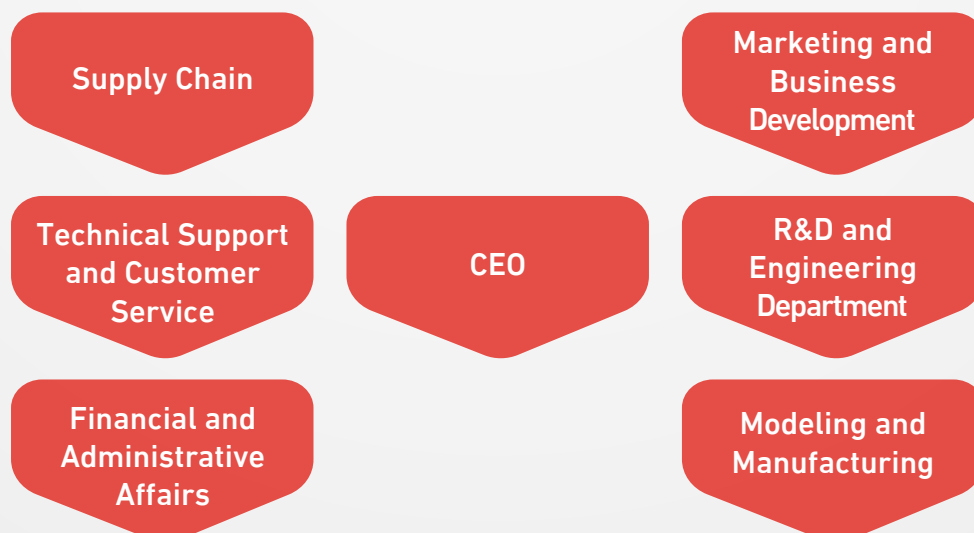
STRATEGIC GOALS

- Building an empowered team, possessing the spirit of discovery & perseverance, and proud to join the company.
- Building deep and superior expertise in our fields of competence.
- Building the ability to transfer & own new related technologies & find solutions.

WORKING PLAN

- Choosing the least expensive products and the fastest in achieving the goals.
- Attracting energies capable of participating in achieving our goals & aspirations.
- Working to develop knowledge and experience through product development.
- Create the best work environment for our employees.

ORGANIZATIONAL STRUCTURE



MOSANADA START

Given the industrial transformation that the Kingdom of Saudi Arabia is witnessing, and in light of the Kingdom of Saudi Arabia Vision 2030, the founders of Musanada decided to invest their long experience and mature knowledge in advanced technical fields in contributing to the realization of Vision 2030, through the development and manufacture of Optronics systems (mainly infrared vision). and some other supporting systems. Some of Mosanada's products & services are viewed below :

1 PRODUCTS

KARAKAL

A complete Hybrid Electromagnetic RWS Anti-Drone System (HERWS) is a new EMG technique that consists of a both Rail and coil Electromagnetic gun, and it combines the advantages of Coil & Rail Electromagnetic systems, Improve Detection & Tracking of drones, even in low-visibility weather.

Fast, direct, and precise Hybrid Electromagnetic guns to destroy drones that pose a threat without firing sound or smoke exhaust.

Integrated with a Ku-band pulse Doppler system specially used in ground security monitoring With artificial intelligence technology. It can also determine the locations of any target, whether persons or vehicles. It covers 360 degrees of observation from low altitudes to very high altitudes.

AMONG ITS FEATURES

- Variable firing angle (from -20 to 60 degrees)
- Up to 2.5 Km Range
- No special material is required for the projectile
- rate of fire 60 rounds/min (depends on the power supply)
- Very High speed (up to 1200 m/s)
- Mobile system
- Intelligent tracking system



Karakal

- ALMESBAR 660 Continuous Zoom

system supporting continuous zoom, auto-focus, and advanced image processing in a compact package.

A 15 µm pitch InSp FPA 640x512 image with 30x22 continuous zoom optics provides, superior image quality and FOV ranging from 18° to 0.8°

Key features :

- capable of offering human detection up to 18km
- and vehicle detection up to 38km.
- 22x motorised optical zoom, F4.0.
- Horizontal field of view: 18.3° (W) to 0.83° (T)



- DALEEL A19 FOV 23°

is a helmet-mounted, uncooled thermal imaging camera that offers hands-free, superior vision in the harshest conditions.

The output video image can be displayed on AR/VR glass or a Normal video display.

Uses of Daleel :

- Detect movement
- Home inspection
- Environmental studies
- Night reconnaissance
- Raids
- Gas leak detection



- AR/VR-HUD 0.7inch micro-OLED

the AR/VR-HUD head-up displays reduce the soldiers' battlefield AR the number of devices that must be carried, and help Follow-up operations more efficiently.

Features :

- Small Size & high-resolution OLED.
- Thin and light in weight.
- Wide FOV 51°

Applications

- Night drive
- Raids
- Night reconnaissance



ALKASHEF_U5

ALKASHEF_U5 Is a five-light fusion multi-function observation thermal imaging & night vision device. It is a handheld infrared detection device that integrates infrared, low-light, visible light and laser with multiple functions and uses.

AMONG ITS FEATURES:

- Image Fusion
- Intelligent
- Lightweight
- High Reliability



ALBAZ 105 FOV 5.9°

ALBAZ 105 Scope provides clear images used under all weather and environmental conditions like darkness, fog, smoke, dust, rain, snow, wood, camouflage, etc. This scope is mainly applied to patrolling, and hunting as a thermal rifle or handheld scope, in harsh environmental conditions.

Features :

- A thermalized Optics.
- Silent (shutterless).
- Operating time > 8h
- Uncooled FPA 640x480, 17um



SARI FOV 230°

is a pocket-sized thermal vision monocular that can help you see people and objects in total darkness of more than 230M.

it's easy to survey large areas and see heat signatures in low-light conditions or outside at night.

Applications :

- animal hunting
- search and rescue
- building inspection
- automotive maintenance



- PVS7

The (PVS7) Night Vision Goggles is a robust, dependable, high-performance Night Vision System and can be used for long-range night observation. It's adopted as a standard issue for Army ground troops, designed to assist with viewing and provide reliable service in the most unfavourable conditions can be used as handheld or hands-free goggles or with optional long-range lenses or compatible objective lenses that allow converting the (PVS7) goggles into a powerful viewer with 3.0x, 5.0x, or 8.0x, magnification depending on the lens the device is paired.



Features :

- It has a built-in infrared IR illumination, to see in Completely lightless situations.
- it's equipped with Automatic Brightness Control to adjust image brightness in changing light conditions.
- It has a bright light cut-off feature to protect the image tube from sources of intense light.

- DIS-10.1

The user interface and command control are integrated with (DIS-10.1), a wide-view angle TFT LCD, with a pixel resolution 1280x800. Depending on the used control PCB, it can be used as a simple monitor or intelligent panel PC.

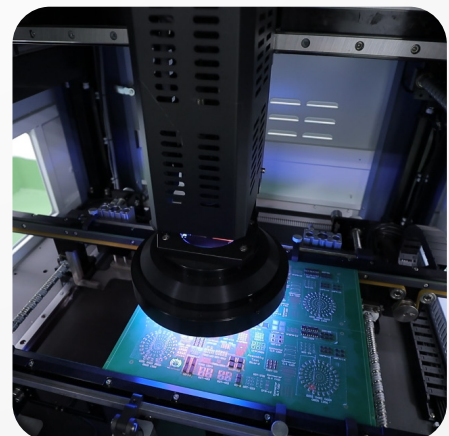
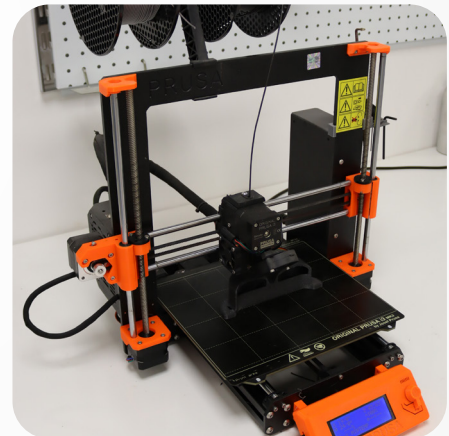


2 SERVICES

MRO

Advanced Mosanada company designs and manufactures optronics and electromechanical systems and Maintains, Repairs, and Overhauls (MRO) such systems up to the level of electronics PCB inclusive embedded systems. Some of those systems are devices that have been and can be maintained, repaired, or overhauled.

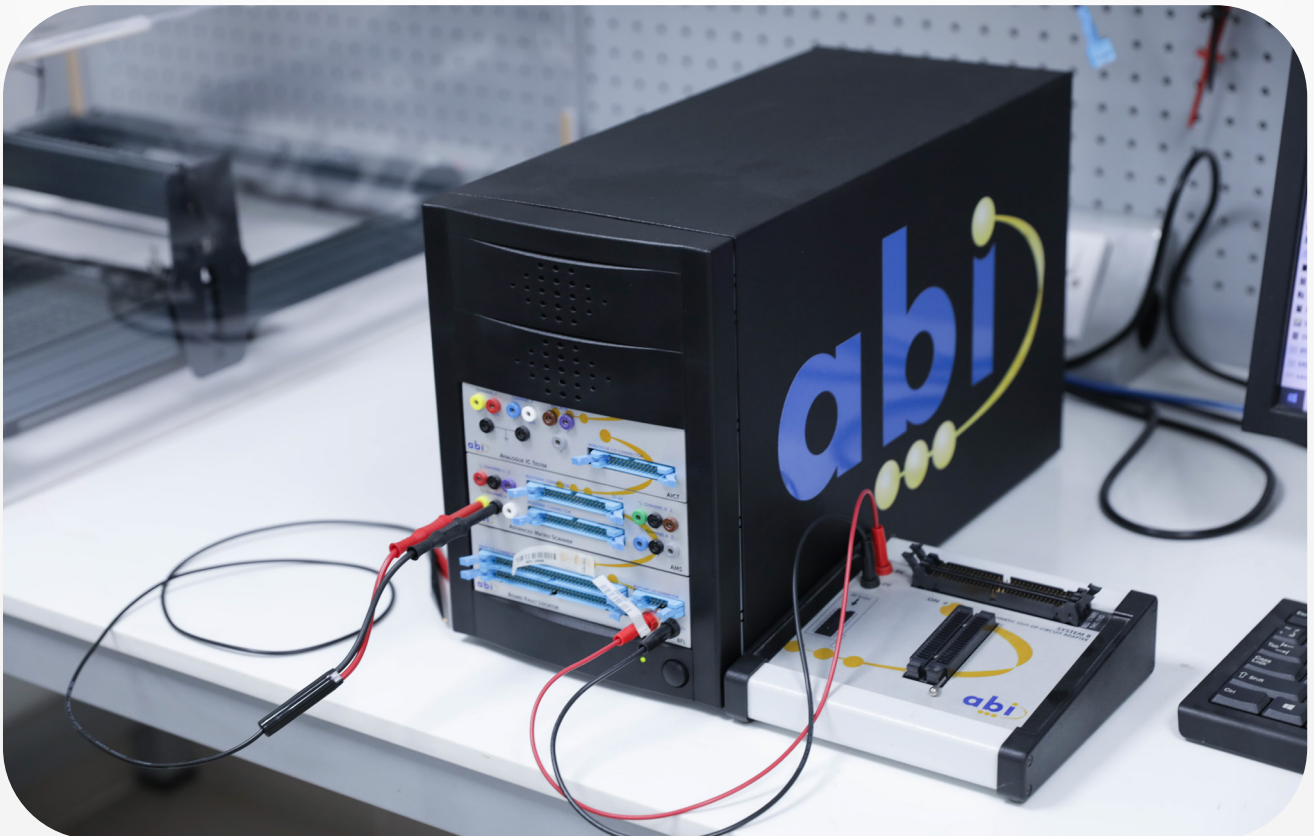
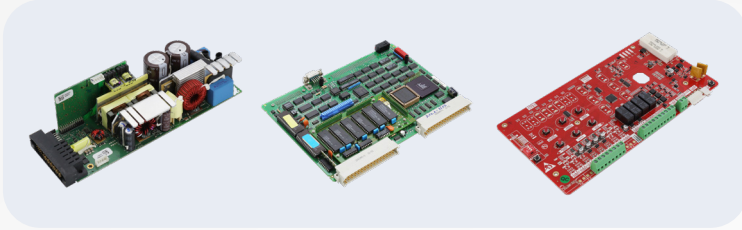
Advanced Mosanada company provides MRO for their customers in different technical areas, either by Mosanada's teams or by cooperation with a third party. Additionally, Mosanada can Provide technical support and consultation to their customers related to their field.



ISO 9001:2015 Certificate

● Maintenance, Repair and Overall for:

- Electronic PCB and Electronic System
- All Optronic Systems
- Electromechanical Systems



ABI Electronics Machine



battery pack-
standard and
customs



AVR controllers
- standard &
custom



joysticks- standard & custom



protection & control relays -
standard & custom



Magnetron



TWT



waveguide
filter



waveguide switch



Magnetron

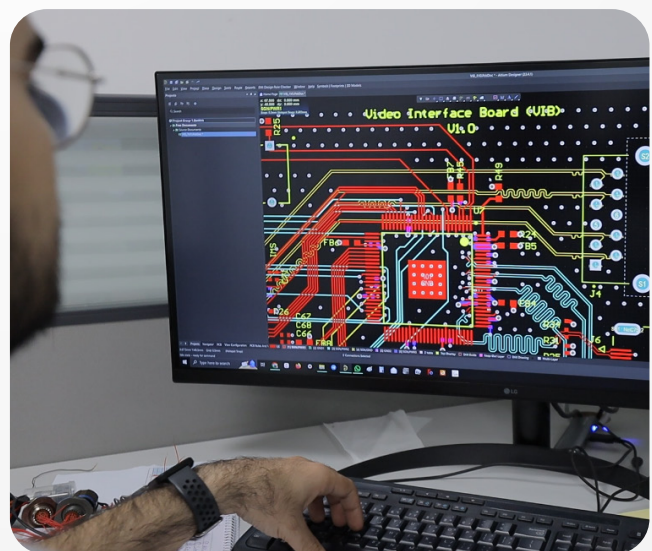


TWT

• Training

The success of every mission depends on high-performance equipment and skilled staff. Mosanada is your reliable partner for training in new skills and technologies that will help your employees safely and efficiently operate and maintain your Mosanada products and systems.

Our Product Training provides essential knowledge along defined skill levels related to your Mosanada products and systems. For this, we differentiate between three levels of knowledge for operators and technicians/maintenance staff.



● Assembly

Mosanada Co. has an advanced Printed Circuit Boards Assembly (PCBA) line, that can assemble components, from highly advanced SMD, and BGA to normal through-hole devices.



PCBA Production Line



we have advanced Printed Circuit Boards Assembly (PCBA) machines for samples and urgent requests

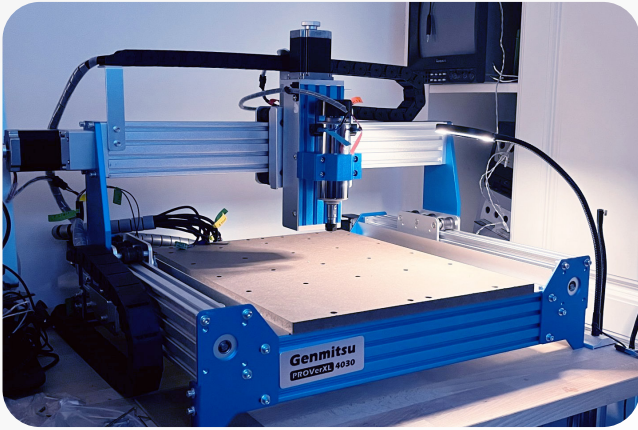


Wave Soldering Machine



● Mechanical Manufacture

MOSANADA Co. excels in mechanical manufacturing with a range of cutting-edge equipment. Our CNC machines ensure precise and efficient production, while our drilling equipment accommodates various operations. We also employ 3D printers for rapid prototyping, enabling quick design iterations. With skilled engineers and technicians, we deliver exceptional quality and innovation in every project.



Routing Machine



CNC Lathing Machine



Mechanical Division



3

CONSULTATIONS

Mosanada's team has committed to providing technical support and consultation to its valued customers, out of their belief that the sustainability of their success is linked to the success of their customers.

This support includes:

- Providing advice on appropriate systems for client applications.
- Rising a customer's knowledge regarding the systems provided to him.
- Helping customers choose the best system among the offers provided by suppliers.
- Providing appropriate solutions to customer needs.



To request Consultations or communication:

✉ info@mosanada.com.sa

☎ +966 12 6525205

