

Perfect Vision Factory Website

For more information to visit my website: www.codehafeez.com

Code Hafeez 

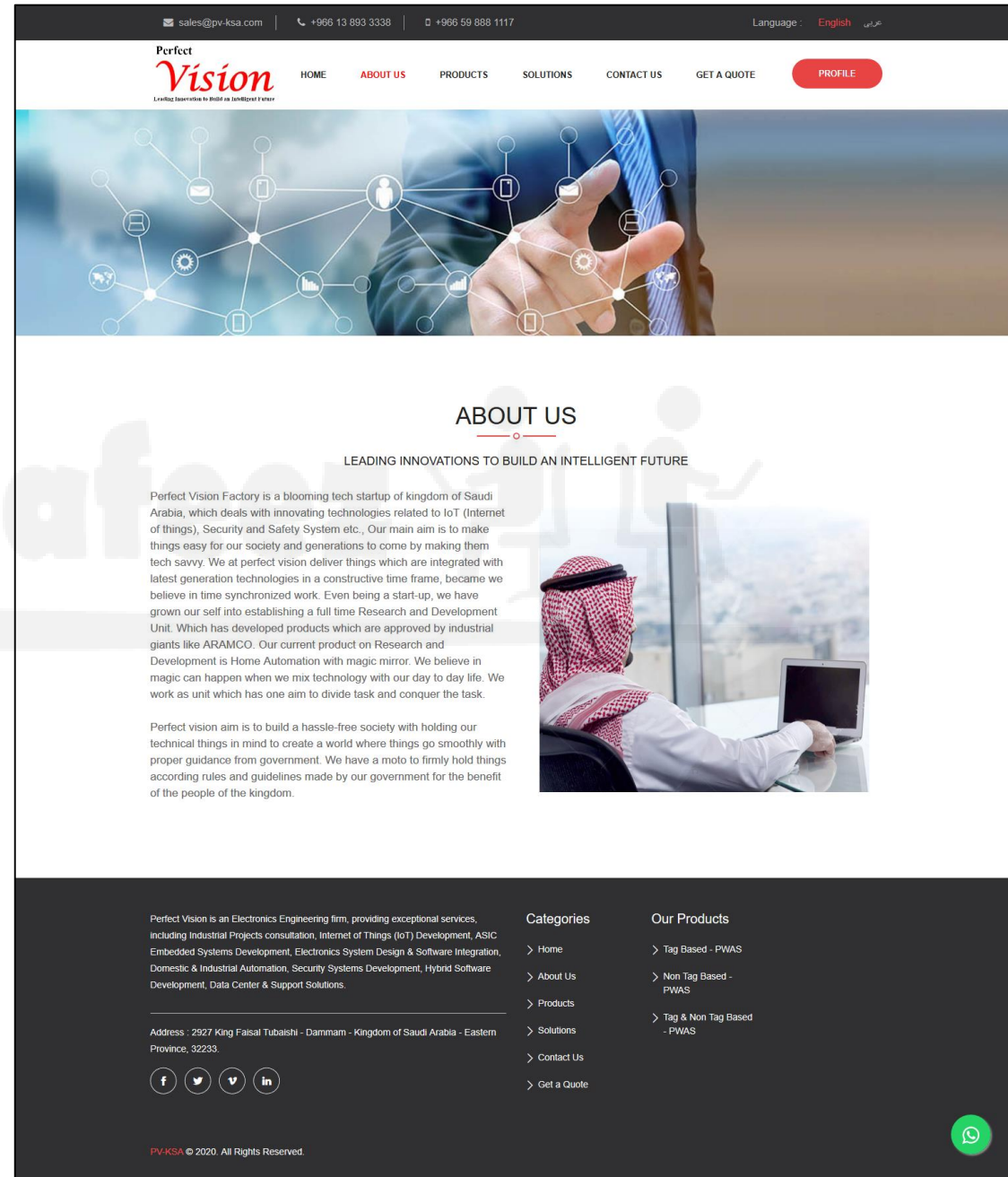
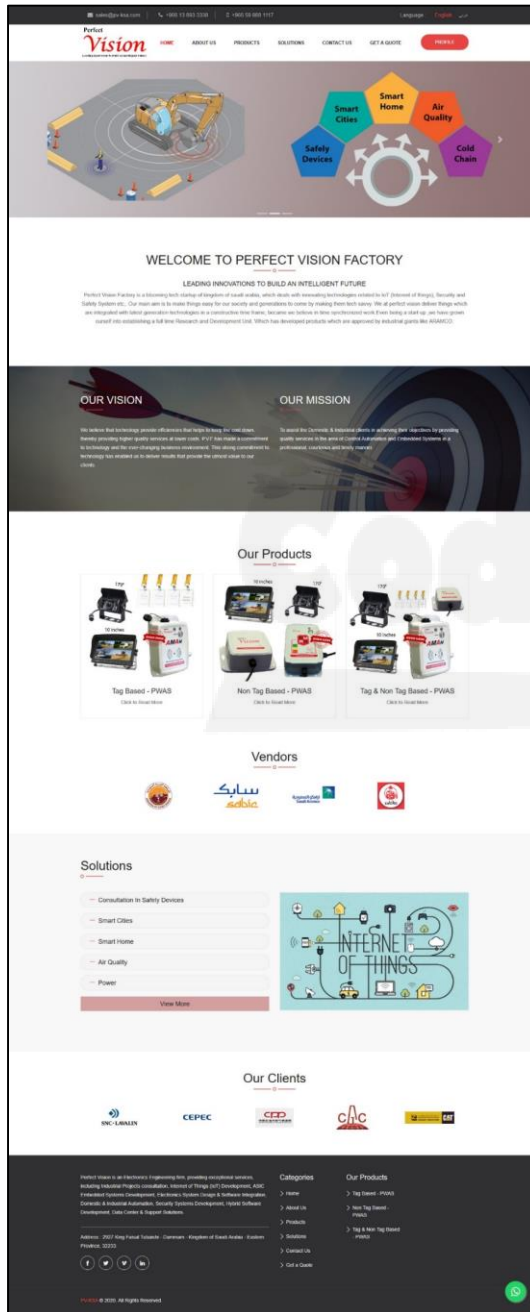


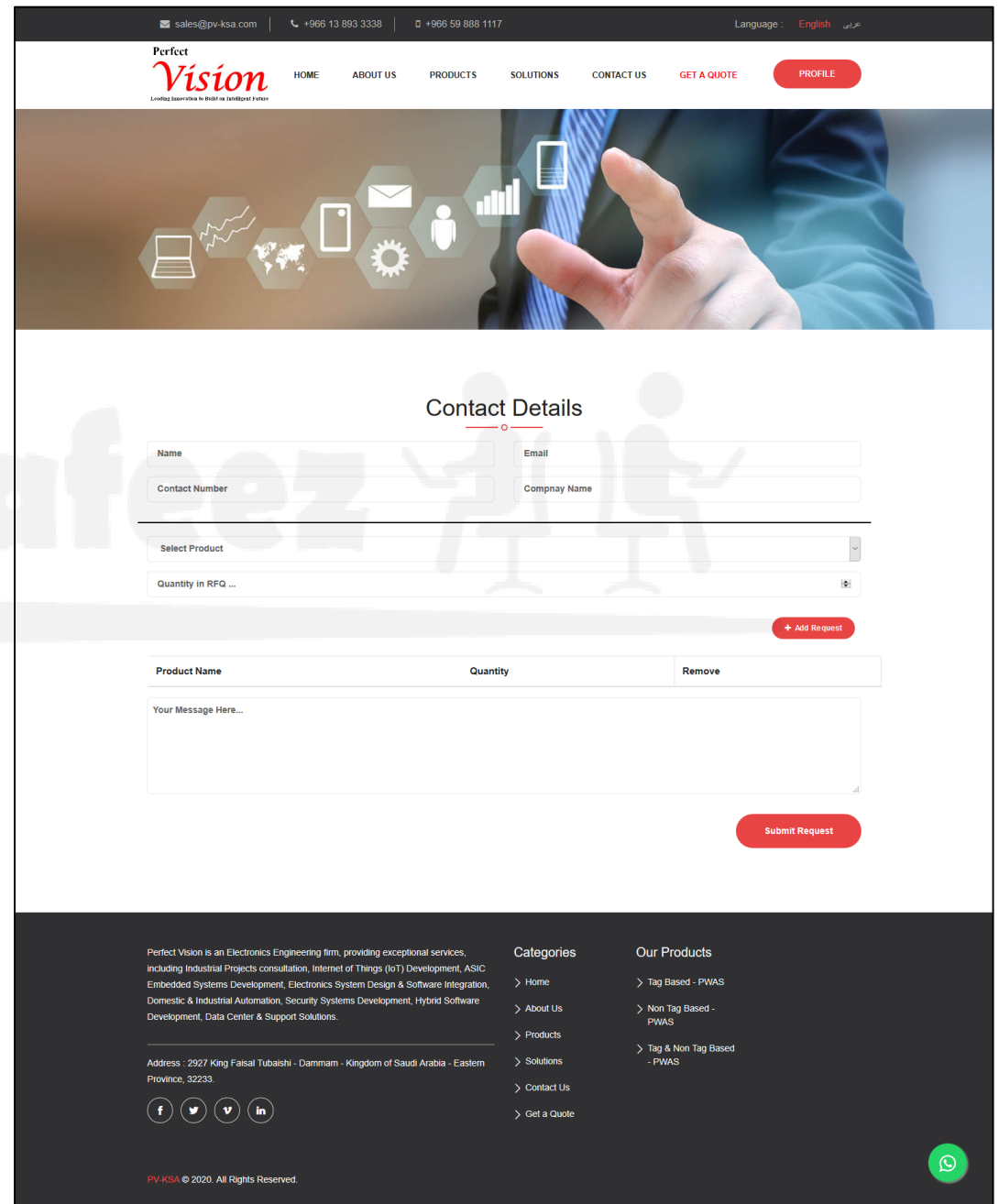
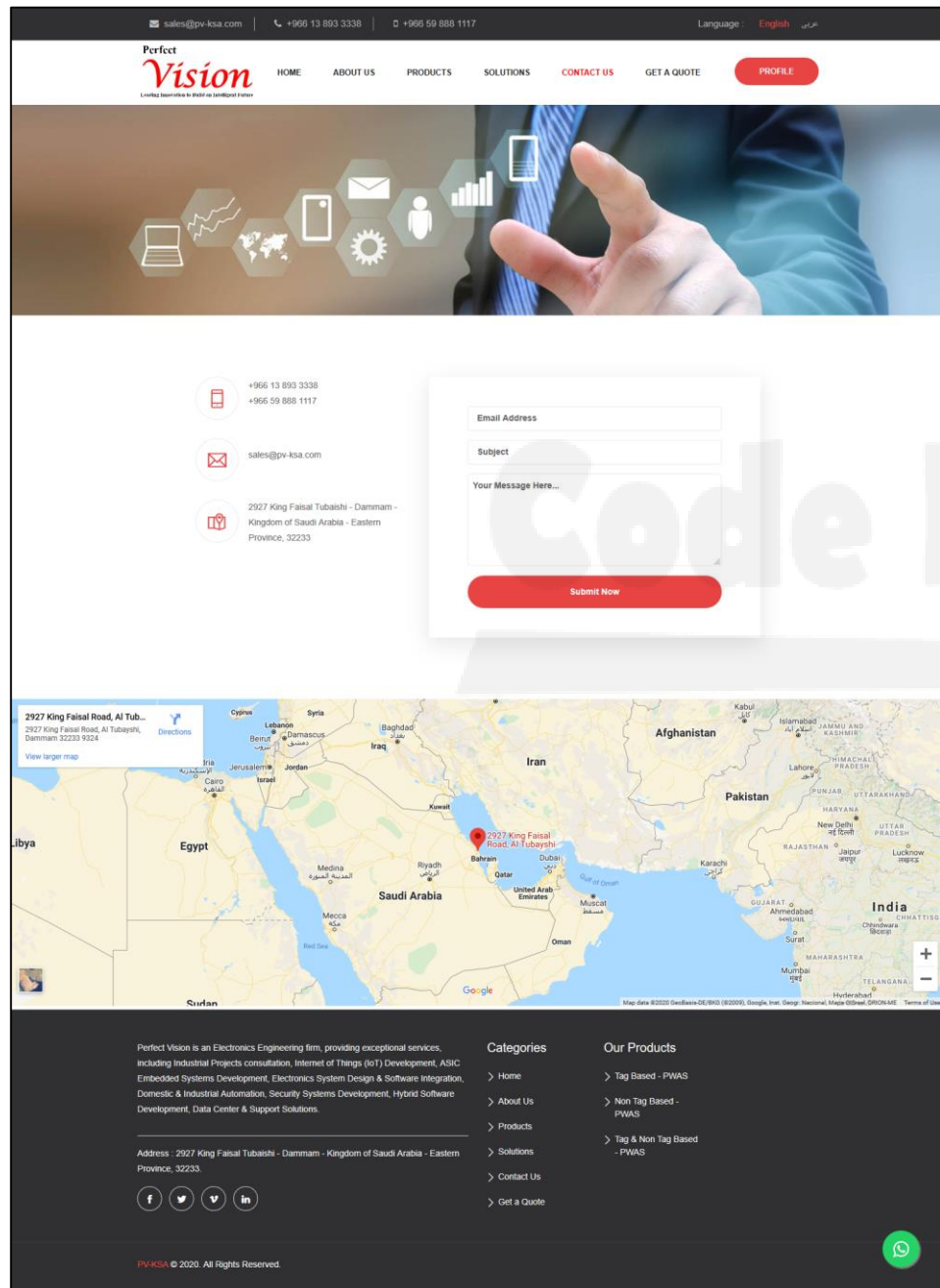
[Click Link To Watch Video – Website 01](#)

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Perfect Vision Factory

Website 01







الاسم:

الرقم:

الموضوع:

...مستطابك هنا

الاسم:



هي شركة خادمة إلكترونيات، تقدم خدمات استشارية، بما في **Perfect Vision** وتطوير إنترنت الأشياء (IoT) تلك استشارات المشاريع الصناعية، وتطوير إنترنت الأشياء وتصميم النظم الإلكترونية وتكامل الـ **ASIC** الأنظمة المدمجة المحلية والصناعية، وتطوير أنظمة الأمان، وتطوير البرمجيات الهجينة، مركز البيانات وحلول الدعم

التصنيفات
الصفحة الرئيسية
معلومات عنا
مفتحة

تجارتنا
على أساس الوسم
PWA
يعتمد على العلامات

العنوان: 2927 الملك فيصل الطبيشي - الدمام - المملكة العربية السعودية - المنطقة الشرقية ، 32233

حلول
اتصل بنا
إفتس



بيانات المتصل

البريد الإلكتروني	اسم
اسم الشركة	رقم الاتصال



الإلة	كمية	اسم المنتج
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هي شركة هندسة الإلكترونيات، تقدم خدمات استشارية، بما في ذلك استشارات المشاريع الصناعية، وتطوير إنترنت الأشياء (IoT) وتصميم النظم الإلكترونية وتكامل البرمجيات والأتمتة، ASIC الأنظمة المدمجة المحلية والصناعية، وتطوير أنظمة الأمان، وتطوير البرمجيات الهجينة، مركز البيانات وحلول الدعم.

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التصنيفات

الصفحة الرئيسية

معناه مات حنا

ملفات

جاء

منتجياتنا

على أساس الموسم
PWAS

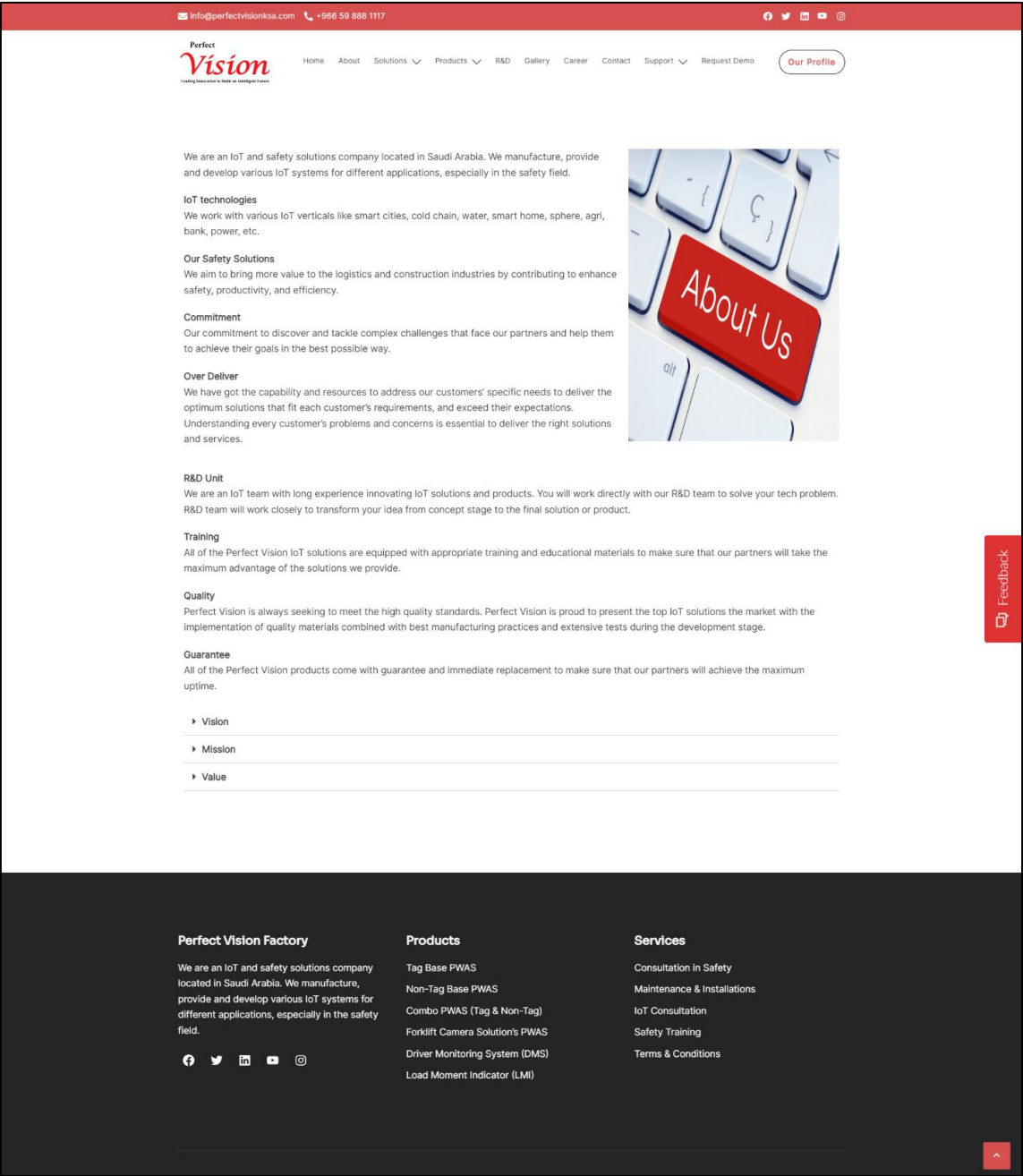
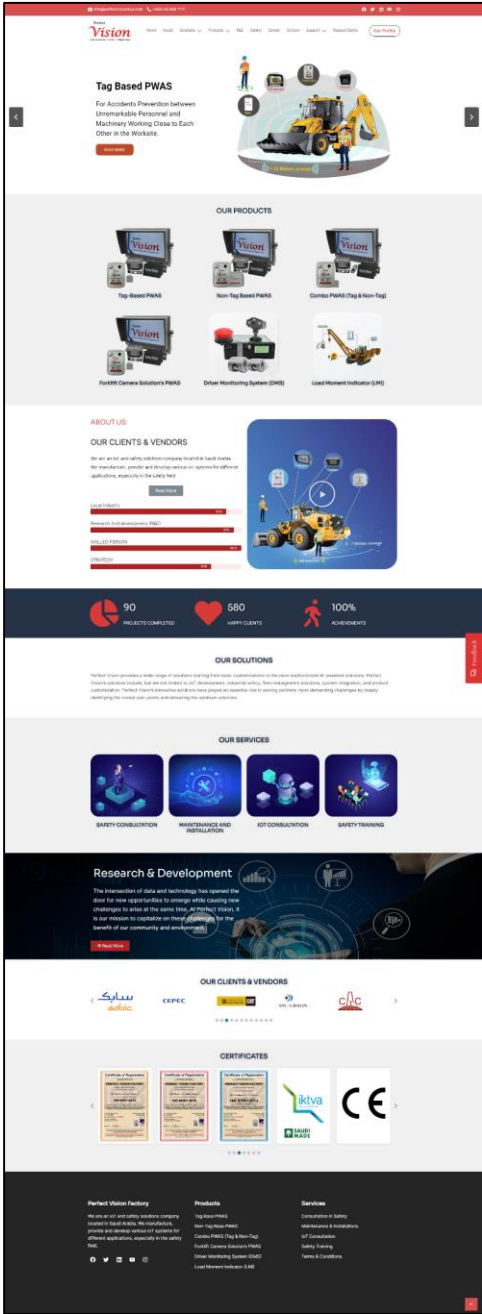
لا يعتمد على العلامات
- PWAS

الكلمات التي لا تعتمد
على العلامات

PWAS

Perfect Vision Factory

Website 02



Air Quality

Connected IoT and sensor devices have the capability to deliver live updated data regarding the air quality. Combining IoT with big data, those in charge of health and environment will have ability to monitor analyses and control the air pollution of local communities, and get insights about the environmental changes and trends.

IoT solutions for air quality and pollution can include:

- Dust and Particulate Matter Sensors
- Wind and Smart Air Observing
- Carbon and Other Gas Component Control
- Humidity and Temperature Sensor
- Warning and Alert Technologies
- Data Analytics for Air Quality And Hazard Identification

Perfect Vision plans to develop some environmental IoT systems to help and participate in the efforts for healthy and safety environment.



Feedback

Perfect Vision Factory

We are an IoT and safety solutions company located in Saudi Arabia. We manufacture, provide and develop various IoT systems for different applications, especially in the safety field.



Products

Tag Base PWAS
Non-Tag Base PWAS
Combo PWAS (Tag & Non-Tag)
Forklift Camera Solution's PWAS
Driver Monitoring System (DMS)
Load Moment Indicator (LMI)

Services

Consultation in Safety
Maintenance & Installations
IoT Consultation
Safety Training
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Data Center

Data center is the most secure option for data storage, and it enables businesses to easily monitor and control operations.

However, in recent years, data center have faced many challenges to adapt to the increasing growth of IoT technologies and applications. The volume of data transferring throughout enormous IoT devices will significantly impact the data center sector.

The data centers should be prepared to deal with these evolving changes and adapt quickly to the new IoT demands and requirements.

The following are some factors that data centers need to consider to be able to adapt to the vast growth of IoT implementation:

- Cybersecurity and Privacy
- Data Flow and Network Architecture
- Energy Efficiency
- Scalability and Flexibility
- Troubleshooting, Availability, and Downtime
- Data Center Locations and Distribution
- Server Technologies and Optimizations



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Driver Monitoring System (DMS)

Driver Monitoring System (DMS) is an intelligent system that aims to improve safety and increase efficiency for the company's vehicle fleet. It helps to increase functionality and productivity while reducing the cost related to operations and maintenance.

The Perfect Vision DMS Solutions Provide the Following Benefits:

- GPS Real-Time Combined with Insights
- Enhancing the Safety of the Driver, Vehicle, and Pedestrian
- Customized Reports to Improve Efficiency and Reduce Cost
- Better Fuel Consumption
- Improving Vehicle Maintenance
- Optimized and Effective Route Planning



The Perfect Vision DMS Consists Of Three Main Components:

- Driver Monitoring System (DMS)
- Advanced Driver-Assistance Systems (ADAS)
- Blind Spot Detection (BSD)

Driver Monitoring System (DMS)

The Driver Monitoring System is an AI-based camera to monitor various human behaviors and ensures the driver is awake, alert, and following the safety rules. This AI camera is also able to detect the signs of fatigue and alert the driver to the device carefully.

Here are some capabilities of this intelligent safety system:

- Distraction Warning
- Driver Fatigue
- Yawn Warning
- Look-Alike Warning
- Calling Warning
- Smoking Warning



Advanced Driver-Assistance Systems (ADAS)

ADAS AI camera aims to activate provide safe driving features and avoid a collision. Here are some benefits of the ADAS system:

- Lane Departure Warning
- Proximity detector warning
- Over-speed warning
- Forward Collision Warning (FCW)



Blind Spot Detection (BSD)

Blind Spot Detection or BSD camera that helps and supports drivers to operate safely when passing lane to avoid side accidents and collisions. This smart system is equipped with an AI-Based Camera. With this system, the driver will receive an alert to be aware of detected objects in both:

- Left Blind Zone
- Right Blind Zone



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Forklift PWAS

A workplace full of pedestrians and vehicle movement can present a lot of challenges for a forklift operator. With so many people and vehicles moving around, the operator must stay alert to avoid potential vehicle accidents. The vision of the forklift operator will be limited at the intersections and gaps, and in some cases, could be blocked due to the load the operator is carrying. Locations like factories, warehouses, and ports typically have a lot of vehicle and pedestrian traffic. Even more clear that, working the goods exponentially with a another challenge in these busy workplaces. So, being alert to other vehicles, pedestrians, and property is critical to keep the workplace safe.

Forklift PWAS is a safety proximity warning and alert system that is designed specifically for the forklift to keep the operator and pedestrians aware of the hazards around the forklift in the workplace. The pedestrians and operators will not always see or hear each other during forklift operations due to many workplace factors like load, dirty floor, or blind spots.

The forklift proximity warning and alert safety system is customizable with Tag or Non-Tag system as per client requirements. When the forklift safety system gets customized with the tag system, it will detect any tag worn by personnel or attached to an object within a 3-5 meter detection range. If the customer chooses to integrate the Forklift PWAS with the non-tag system, any object or personnel will be recognized within 180 degrees and 3-5 meter range, regardless of the tags assistance. The Forklift PWAS comes with a special monitor and camera system to provide more safe and convenient forklift operations.

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- Detecting any objects crossing the detection zone
- Detections of stationary and moving objects
- Providing visual and audible warnings
- 360 degree detection area coverage
- Extra 180 degree detection area coverage (for non-tag holders and objects)
- Self-testing of entire system
- Suitable for any type of machinery
- User defined detection range (3m to 15m)
- Fast and instant reporting



PWAS Control Unit & Sensor

For Forklift PWAS, the control unit works in both of the available customizations: tag and non-tag. However, the sensor will be provided only with the non-tag customization.

The PWAS control unit is placed next to the operator inside the forklift cab. When any personnel or object is detected nearby, the control unit engages an alarm to warn the forklift operator that a person or an object is approaching the hazard area. The built-in software inside the control unit will identify the tags holders and creates a 360 degree detection zone around the forklift with a range of up to 5 meters. The Forklift PWAS sensor will not detect any personnel or objects with no tags worn within a 180 degree detection range and up to 5m. Event and hazard recording feature is included for better risk assessment and incident investigation.



Detection Zone

The detection zone in the Forklift PWAS will depend on the selected customization (either tag or non-tag). For the Forklift PWAS that is customized with a tag system, a 360 degree coverage up to 5m range will be detected. For the non-tag Forklift PWAS, all objects and non-tag holder personnel will be detected within a 180 degree coverage and up to 5m. The detection zone for both customized systems can be expanded or reduced upon the client's request.

PWAS Camera & Monitor

Forklift PWAS is equipped with unique cameras that are different from the other types heavy equipment cameras. The Forklift PWAS camera system has been designed to suit the forklift's specific needs and fulfil the safety requirements. Combining the camera & monitor together will provide a better view for the forklift operator and eliminate the blind spots.

Forklift PWAS camera can be installed at different points of the forklift. This aim here is to allow forklift operators to reach and have greater visibility of areas they usually cannot see.

For example, the forklift camera can be installed on the overhead guard, or on the carriage between the two forks, or when the operators want to look up, they can easily see and fix up the forks with the pallet. Also, as a back-up, the camera can be mounted on the forklift's chassis on the back. More cameras can be added as well if additional views are required.



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Perfect Vision
Leading Innovation to Build an Intelligent Future

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Controller

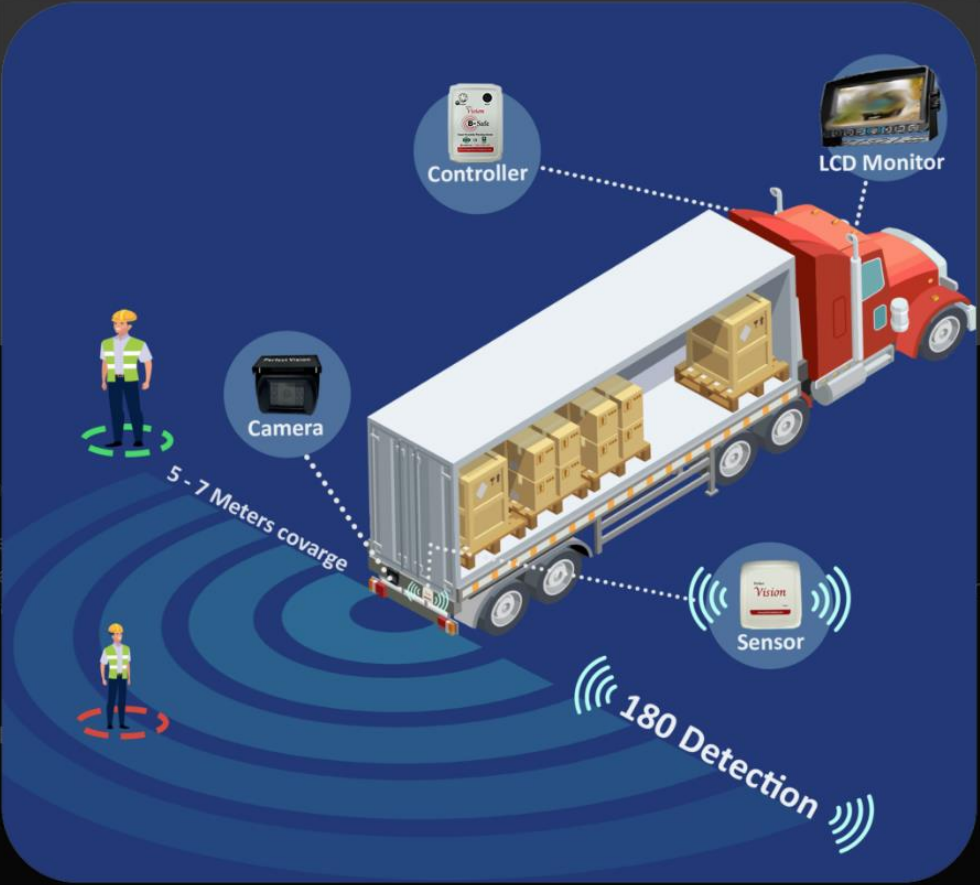
LCD Monitor

Camera

Sensor

5 - 7 Meters coverage

180 Detection



non-tag

Feedback

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Power

Deploying IoT techs help to utilize power and energy consumption. Smart power and energy management reduce operational cost for logistics, manufacturing, and many other businesses.

Here are many ways and solutions of IoT technology for power:

- Demand Response
- Advanced Battery Charge and Storage
- Smart Power Grid Technology
- Automated Control
- Advanced Metering Infrastructure
- Green Energy Smart Integration
- Distribution and Consumption Predict
- Malfunctions Detection and Quality Auditing



Power and energy sector is increasingly adopt new IoT technologies every day. Perfect Vision is supporting the innovation for useful IoT implantation in the power sector.

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Agriculture

One of the top benefits that of implementing IoT technology in agriculture is increasing the ability for fast response and improving the efficiency of the farming processes. Farmers can quickly get updated data regarding weather, humidity, corps, etc; and take the appropriate actions in the right time.

Here are some IoT applications in the agricultural field:

- Monitoring Climate Conditions
- Greenhouses Smart Automation
- Field and Plant Disease Observation and Detection
- Farm and Water Management System
- Soil Quality Control
- Drones Implementation
- Smart Irrigation



Perfect Vision IoT research in Agri aims to improve the farming and agricultural sector by inventing creative IoT solutions to increase the productivity and facilitate the farming operations.



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Bank

IoT delivers a lot of benefits and applications to the banking and financial services. Here is a list of some solutions and benefits can internet of things brings for Banks:

- Device To Device Communications (D2D Protocols and Sensor Implementation)
- Cyber Security, Fraud Detection and Protection
- Contextualized Finance, Loan Approval, and Overspending Alert
- Inventory Monitoring For Finance
- Equipment and Vehicle Risk Forecasting (Driver/Operator/Operations Behavioral Based Risk Assessment)
- Data-Driven Enhanced Customer Experience
- Monitoring and Improving the Uptime Of Infrastructure
- Tracking and Enhancing the Asset Security



All over the world, the research and experiments are ongoing actively by banks and fintechs to unleash the full potential of IoT technologies and find new and innovative case uses.

Feedback

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Cold Chain

The aim of cold chain is to ensure products and goods quality and safety. IoT technology can benefit cold chain in many ways like:

Asset Tracking
Temperature Monitoring
Data Collection and Analysis
Operations Cost Control
Refrigerator Remote Control

At Perfect Vision, we keep researching and developing new solutions for cold chain and smart refrigerating systems.



Feedback

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Office

IoT technologies help to improve offices and commercial buildings in many areas like maintenance, facilities and energy efficiency.

Some IoT solutions for office include:

- Restricted Access Area
- IoT Printers
- Intelligent Lighting
- Equipment Tracking
- Office Air Quality
- Availability and Booking Management

There are many applications of IoT for offices and commercial buildings, and more solutions are emerging every day. Perfect Vision participates in this ongoing trend to make the office more smart and self-sustained.



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Request Product Demo

Location

2927 King Faisal Tubalshi - Dammam - Kingdom of Saudi Arabia
- Eastern Province, 32233.

Contact Us

+966 59 888 1117
+966 13 893 3338

Opening Hours

Saturday - Thursday
8:00am - 05:00pm

Full Name *

0 of 30 max characters.

Phone Number *

+966 051 234 5678

Email *

Select Product for Demo *

Combo PWAS (Tag & Non-Tag)

Comment or Message *

Visual Text

Paragraph Bold Italic Underline Link Image Video Embed

SUBMIT



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Research and development

Innovation in technology and IoT solutions has been the very first foundation of Perfect Vision Factory. The intersection of data and technology has opened the door for new opportunities to emerge while causing new challenges to arise at the same time. At the Perfect Vision R&D department, we made it our responsibility to take full advantage of these opportunities and deal with these new complicated challenges.



About the R&D Department Team

At Perfect Vision Factory, we believe that the diversity of skills and industries is critical for a successful R&D team. The R&D department at Perfect Vision consists of diverse disciplines and expertise in different areas to identify the most promising ideas, capitalize on them through research and innovation, and present them to the market.

What do we do? Our Goals? And Process?



- At the R&D department, we are addressing various challenges across different sectors and industries. Proudly, Perfect Vision solutions are being developed in-house inside its advanced labs, and under the supervision of Perfect Vision's R&D experienced and talented engineers and researchers.
- Developing advanced and new data-driven IoT solutions based on the industry needs and challenges.
- Focusing on safety solutions based on technology for various industries and businesses.
- Improving and enhancing the current products and solutions, taking in mind our clients' and partners' feedback.
- We have got the know-how knowledge. So, whether you are looking for a minor modification in your system or willing to have more features, or even looking to integrate our technologies with other solutions, the R&D department at Perfect Vision will give their maximum effort and support to satisfy your requirements and get you up and running.
- Perfect Vision's R&D department offers a wide range of solutions and services, making our partners feel like having a collection of genius engineers working for them.
- Through research and development, Perfect Vision is looking to address and contribute in technological development to better serve the business and society.
- We aim to become one of the leading research and development technologies in the IoT field.

What R&D involve?

In general, the following components may exist in most of the R&D project:

Project Initiation (problem and challenge identification)
Resource Estimations (time, human resource, budget, etc.)
Getting the requirements
Development stage
Testing/Findings/Analysis/optimizations



R&D Consultations

We provide consultation services in IoT leading-edge technologies in applications like smart cities, cold chain, water, smart home, sphere, agri, bank, power, etc. Our consultants and technologists will walk with you hand in hand and will give you a better understanding of your needs, to take you from the idea to conceptualization, to the final stages of solutions.

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Smart Cities

Smart cities leverage the power of information and communication technologies to address the challenges of urbanization. Smart cities depend highly on the application of internet of things (IoT).

Some applications of smart cities include:

- Smart Lighting
- Parking
- Decreasing Traffic Congestion
- Air Quality
- Energy Optimization
- Waste Collection
- Smart Street
- Improving Air Quality
- Smart Grid for Electricity
- Public Safety Solutions



Smart cities utilize the potential of data and technology to support data-driven decision-making to enhance citizens' lives and improve efficiency in several fields and industries.

Perfect Vision is continually conducting research and experiments to come up with new solutions for smart cities and contribute to the efforts to utilize the enormous opportunities of IoT technology.

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Smart Home

Implementing IoT solutions for smart homes include the use of sensors to control the home electronically and remotely. Smart homes can be controlled easily by using mobile apps. Smart homes also can operate independently and intelligently using smart sensors, like turning the light or the heating off when sensing that there is no one inside the home. Automation is the main feature of smart homes.

Here are some applications of smart home:

- IR Camera
- Smoke Sensor
- Gas Leak Detection
- Smart Door and Window Control
- HVAC Control (Air Conditioning)
- Security Control
- Motion Sensor



Smart home solutions can make our life easier and help to optimize the usage of energy and resources. Perfect Vision is continuing its dedications to improve and develop smart home IoT systems usage and applications.



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Tag-Based PWAS

Implementing the proper safety system to the vehicle, according to the site-specific needs, is an essential factor to enhance workplace safety. PWAS system for heavy equipment that is based on tag is a Vehicle To Individual & Vehicle To Vehicle proximity warning and alert solution, designed for accident prevention between unremarkable personnel and machines working in the workplace close to each other.



- Detections of stationary and moving objects
- Providing visual and audible warnings
- 360 Degree detection area coverage
- Getting rid of blind spot areas
- Suitable for any type of machinery
- User defined detection range (7m to 15m)
- Event and hazard reporting

PWAS Control Unit

The PWAS control unit is placed next to the operator inside the vehicle. When the tag is detected, the control unit issues an alarm to warn the operator of the heavy equipment that a person wearing a tag is approaching the hazard area. The antenna, which is built in inside the control unit, creates a 360 degree detection zone around the vehicle and will recognize PWAS tags up to fifteen meters. PWAS Control Unit also provides the ability for event and hazard recording. This feature will support the risk assessment process, and improve the safety in workplace.

PWAS Tag

The PWAS control unit is placed next to the operator inside the vehicle. When the tag is detected, the control unit issues an alarm to warn the operator of the heavy equipment that a person wearing a tag is approaching the hazard area. The antenna, which is built-in inside the control unit, creates a 360 degree detection zone around the vehicle and will recognize PWAS tags up to fifteen meters. PWAS Control Unit also provides the ability for event and hazard recording. This feature will support the risk assessment process, and improve the safety in workplace.



Detection Zone

The detector zone is a pre-defined hazard area around the machinery. The PWAS Control Unit can, by default, detect tags within 7-15 meters. The detection zone can be expanded more than that, or even reduced according to site safety requirements. If within the detection zone, the system will detect +50 tags simultaneously.



PWAS Camera & Monitor

When PWAS Camera & Monitor are integrated with the Tag-Based system, this will provide greater confidence for the vehicle operators by making them aware of the personnel and property in the machinery blind zone. Cameras are mounted in the front and rear of the machinery, while the monitor is placed in the cab to provide clear vision and visual warnings. Extra cameras can be installed as well according to the sites requirements.



Click to view Product Document

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Water Management

Applying internet of things (IoT) to water management smart systems will help to reduce wasting. There are several activities that involve wasting water resources, such that agricultural and manufacturing operations. Using big data and analytics approaches combined with smart IoT water systems will help achieve sustainable and efficient management.



Here are some examples of how IoT technologies can help in water management:

- Intelligent Irrigation
- Quality Testing
- Pressure Sensor
- Water Safety Monitoring
- Leakage Detection
- Water Transportation
- Emergency Maintenance
- Failure Prediction

Perfect Vision R&D department works to explore potential IoT solutions to develop for water management.

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Forklift Camera Solution's PWAS

Driver Monitoring System (DMS)

Load Moment Indicator (LMI)

Services

Consultation in Safety

Maintenance & Installations

IoT Consultation

Safety Training

Terms & Conditions

Feedback