



2020



Internet Of Things

Catalogue

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WELCOME TO Our Creative World

We truly appreciate your continual support for our company and products. The Egyptian Company for Development of Education Technologies was established in 2008. Through this short period of time, our company became one of the most influential and competitive companies in the field, all due to the efficiency, devotion and competence of our workers. Quality and durability is our goal, so we do commit to exceeding the international standards of Quality Management during all the phases of production.

We have a firm belief that our products will enhance and support educators and students in the world and that the key for uniqueness is to invest in the power of minds, research and sustainable development. We also have the capability to custom produce equipment to comply with the requirements of our valued clients. We spent a lot of time listening to students and teachers.

We incorporated their complaints of other manufacturers and their remarks on their objectives to build the ultimate training solutions.

Our trainers help students reach their educational goals and curriculum objectives by supplying them with the hardware and software that facilitates thinking, creativeness and enhancement of diverse skills. Our job does not end there; Rather, we continue monitoring our systems for life after they are sold. Our after-sale support team is always there to help students and school officials get the most out of their purchased products. Our objective is to be the top producer of engineering/vocational training equipment in the world.

Please enjoy our catalog and let us know if you have any questions or concerns. We are always here to help! We guarantee that we will transform your classroom experience to a totally new level.



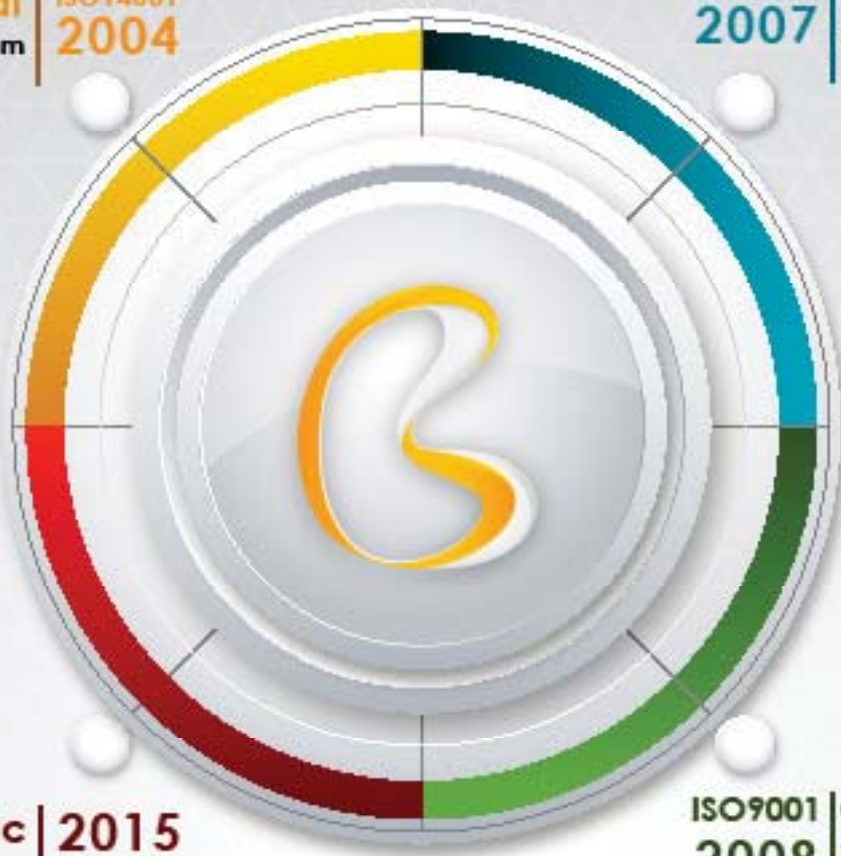
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THE BEST EFFORTS

Environmental Management System | **ISO 14001 2004**

OHSAS 18001 2007 | **Occupational Health & Safety**



World didac Membership | **2015**

ISO 9001 2008 | **Quality Manager System**



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M E M B E R

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IOT Basics Trainer

Overview

Trainer has Aluminum Frame with easy installable IOT modules, Trainer provides overall IoT elements technology (IoT Device, Network(Wi-Fi/BLE), IoT Platform, IoT Service), Enable to produce IoT device using IoT base board, sensor, Actuator, communication module (Wi-Fi/ BLE), Firmware ,Enable to study the difference communication connection between Wi-Fi and BLE using IoT base board ,IoT Device grouping practice using Gateway ,Enable to study IoT Platform structure and operation method (Registration, Data monitoring, Device control, etc.) ,Create IoT Service such as mailing service using IoT Platform event function, Understanding the overall flow of IoT connected to IoT Device-IoT Platform-IoT Service ,Practice of making IoT device through Wi-Fi/BLE communication, Individual connection of IoT devices and group connection practice using IoT gateway ,27 types of various modules such as sensors, actuators, and displays can be installed, Simultaneous use of Local IoT Platform and Cloud IoT Platform.



Specifications

Trainer Consist Of :

- 1 x Aluminum Frame Holder
- 2 x IoT BLE Device
- 2 x IoT Wi-Fi Device
- 1 x IoT Gateway
- 1 x IoT Camera
- 1 x set of sensors and actuators

Experiments

- IoT overview
- IoT basic training equipment introduction
- Build a development environment
- **WIFI DIRECT practice**
 - » PSD Sensor monitoring service firmware development
 - » Touch Sensor Monitoring Service Firmware Development
 - » LED module control service firmware development
 - » SERVO Module control service firmware development
 - » Device interlocking event firmware development
- **GATEWAY practice**
 - » PSD Sensor monitoring service firmware development
 - » Ambient Sensor monitoring service firmware development
 - » LED module control service firmware development
 - » FND module control service firmware development
 - » SERVO Module control service firmware development
 - » Device interlocking event firmware development
- Beacon service firmware development

Accessories

- 1 x User Manual
- 1 x set of connection cables
- 1 x Sample Codes
- 1 x Power Cable

Works on 220V AC 50/60 Hz

IoT home service Trainer

Overview

Understanding the overall flow of IoT connected to IoT Device, IoT Platform, IoT Service. Modularization of sensors and control devices that are frequently used at home into 8 concepts such as Power Control, Light Control, Gas and water Control, Door Lock, Air Conditioning, Appliance, IP Camera, and Security. Individual monitoring and control of sensors and devices of each module, event-linked control. Provide basic/application example programs necessary for using IoT Platform. Video output practice of IP camera using Android App. Real-time monitoring and remote control of home device data stored in IoT Platform. Home Device service flow chart



Specifications

Trainer Consist Of :

- Aluminum Frame
- 1 x IOT Gateway Module
- 1 x Security Module
- 1 x Door Control Module
- 1 x Gas Control Module
- 1 x Light Control Module
- 1 x Appliance Control Module
- 1 x Air Conditioning Module
- 1 x Power Control Module
- 1 x IP Camera Module

Experiments

- IoT and smart home
- IoT convergence home service training equipment
- Building an IoT convergence home service device environment
- Gas Module Sensing
- Gas Module Control
- Security Module Sensing
- Security Module Control
- Power Module Control
- Light Module Sensing & Control
- Door Module Control & Sensing
- Appliance Module Control
- Air Conditioning Module Control
- Gas Module interlocking control
- Security Module interlocking control
- Light module interlocking control
- SMS Notification Service
- Application Video Service

Accessories

- 1 x User Manual
- 1 x set of connection cables
- 1 x Sample Codes
- 1 x Power Cable

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IOT Smart Factory System Trainer

Overview

Smart factory system implementation practice that combines production automation system and Internet of Things (IoT) technology. Process status and real-time monitoring and remote control using IoT Platform. Practice sequentially from basic control for each process to smart factory system implementation. Provides basic / application example programs necessary for various practice. IoT Service implementation by setting an interlocking control event according to specific conditions using process information of the IoT platform. Production automation supply, processing, transfer, inspection, extraction and storage processes



Specifications

Trainer Consist Of :

- 1 x Aluminum Frame
- 1 x IOT Gateway Module
- 1 x Controller with IOT
- 1 x Industrial LED Lamp
- 1 x Pneumatic System With conveyor system with its related sensors and actuators

Experiments

Production automation process

1. Learning the step-by-step process of production automation and how to operate the entire process using a microprocessor

- Equipment introduction and environment construction
- LED lamp control
- LED control using switch
- Feed cylinder control
- Machining cylinder control
- Extraction cylinder control
- LED lamp control according to material detection
- LED lamp control according to proximity sensor
- Machining motor control
- Conveyor motor control
- Extraction process
- Transfer process
- Machining process
- Supply, processing and transfer process
- Transfer and extraction process
- Production automation overall process operation

IoT Convergence Automation Process

2. Real-time monitoring and remote control of process status by fusion of IoT with existing automation process

- Smart Factory Training Equipment
- Building an IoT environment
- Sensor monitoring using IoT
- LED lamp control using IoT
- Cylinder control using IoT
- Motor control using IoT
- Condition monitoring according to cylinder control
- LED interlock control according to sensor detection
- LED interlocking control using switch
- Supply process IoT interlocking control
- Processing process IoT interlocking control
- Transfer process IoT linkage control
- IoT interlocking control of extraction process
- Count monitoring
- Error processing monitoring
- Error Count monitoring
- Realization of Smart Factory using IoT

Accessories

- | | |
|---|---|
| <ul style="list-style-type: none"> • 1 x User Manual • 1 x set of connection cables | <ul style="list-style-type: none"> • 1 x Sample Codes • 1 x Power Cable |
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