PrefactorTech

Company Profile

Company Profile

Storyboard

5 min	15 min	5 min	5 min	10 min
About us	**Product**	**Application**	**Case Study**	**Q & A**
Introduce the history of PrefactorTech, and our team members, partners, locations and solutions currently available.	Explain and introduce the products and services of the Automation, Digital Factory, and AGV.	Using projects to show the ability that PrefactorTech is working for application.	Show some successful projects for verifying the products and services that PrefactorTech can be provided.	Opinions exchange and discussion on company's profiles, products, service.

About us

Our Mission

Our mission is creating “Productivity".

Total Solution

Company Profile

Automation, Digital Factory, AGV

Our mission is creating “Productivity". PrefactorTech's product is providing "Automation Equipment", "Digital Factory" and "Automatic Guided Vehicle“

Founded in 2008, the core team members mainly from the automotive industry, electronics industry, management consultants.

We are focusing of Metal, Electronics, Automobile, Panels, Semiconductors industries. Our product and service are including Software, Consultants, Automation, Automatic guided vehicles.

Our History

2008

- PrefactorTech was founded in Nankang Software Incubator.
- At the beginning, we provided consulting and software services.

2009

- Be the reseller from Finnish's Visual Components for Digital Factory.
- Develop a simulation service business.
- Making Automation machine for machine industry.

2014

- The company moved to Xin Zhuang, Taipei
- Making Automation machine for assembly application.
- Making Automation machine for 3C industry.

2016

- Making Automation machine for automobile industry.
- Getting the agent from GreenTrans AGV.

2017

- Relocation factory and RD team to the current factory.
- Develop the mobile robots solution.
- Focus of assembly automation system.

Organization

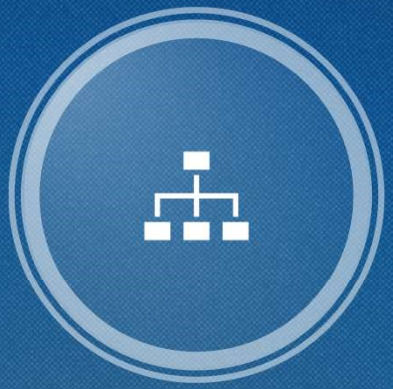
Our Specialties

Equipment development

With a strong R&D team, through concept design, sample testing, and experimental confirmation, the equipment development speed is fast and the quality is excellent.

Rapid planning

Accumulate a large number of 3D model database of automation components, that can be quickly designed the system and program planning for clarifying customers' requirements.



System integration

The engineering team can use multi-brand robot and have integration experience, which makes the system integration efficient.

Virtual to Reality

System simulation is used to reduce potential risks, balance system tempo and device interaction, and maximize productivity. Let the automation from virtual to reality.

Branch

Branch

01

Taipei Headquarter

- Automation machine design and manufacturing.
- AGV system design and manufacturing.
- Sales of digital factory software.
- Product design and development.

02

Shanghai office

- After service for Automation system
- Sale center of digital factory software.

03

Shenzhen Office

- Sale center of digital factory software.

Product & Service

Our Product & Service

Automation

Providing the best solution of robotics and automation. Our target is maximizing the efficiency of customer's factory.

Digital factory

With the latest simulation software and application experience. We can help customers easy to develop their factory or automation line of our Digital Factory solution.

AGV

Greentrans automatic guided vehicle can help customer to improve the efficiency of factory logistic. We also using the virtual software for planning, it's will so easy for the implement of Logistics Automation

Simulation service

With simulation technology, software and industrial engineering technology, the simulation service is used to confirm the whole plant planning and equipment process capability.

Automation

Application

Assembly

Loading/unloading

Labeling

Welding

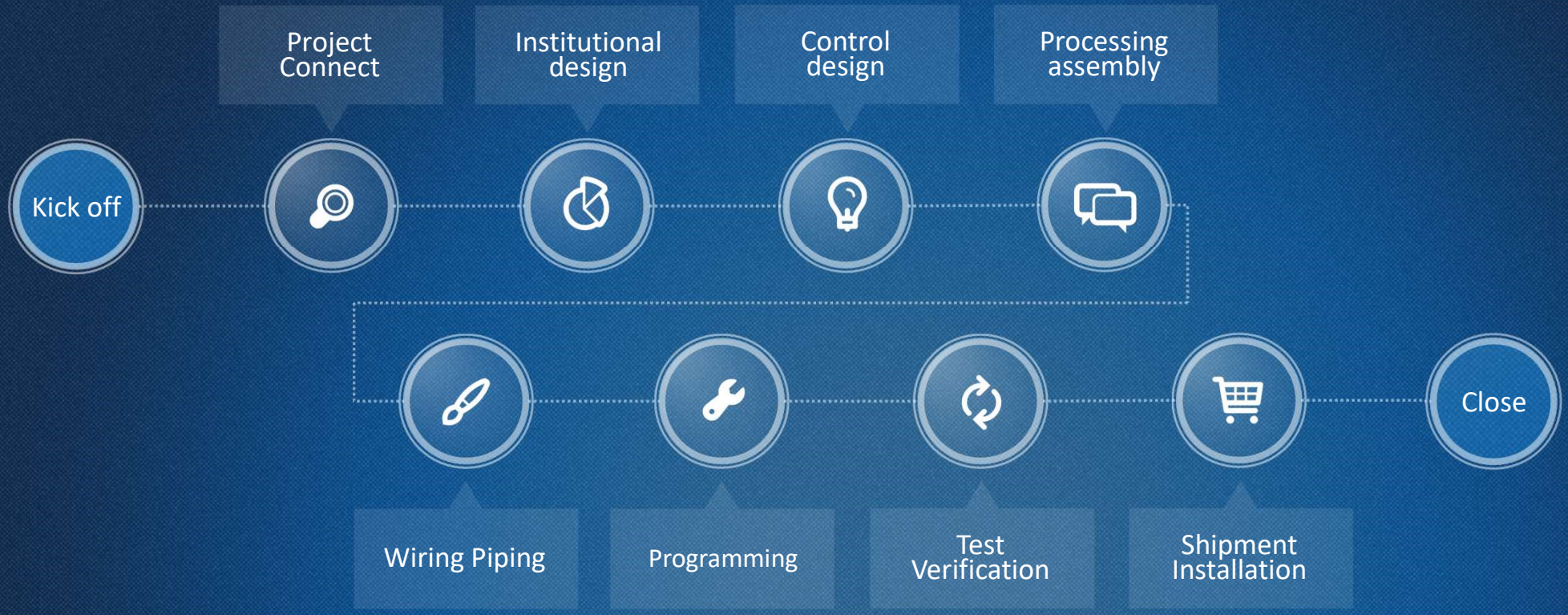
Deburring

Testing

Inspection

Special Machine

Project Workflow



PrefactorTech

Manufacture Process

Material

The project materials are included in batches and managed after quality check. We put those material into the basket for assembly.

Machining

The parts are processed and manufactured by the CNC machine equipment, or modified and adjusted, and then delivered for assembly team.

Assembly

According to the drawings, the sub-assembly modules, components, and some parts from market will be assembled, tested, verified, and then delivered to the next station.

System integration

Wiring, piping, PLC and robot programming, and then testing and verification of the module, and finally the overall test and delivery.

Automation Project

PrefactorTech

Automatic Guided Vehicle

Greentrans Automatic Guided Vehicle

The best Logistic Solution

GreenTrans Automatic Guided Vehicle is designed by the production technology department of China Motor Corporation in Taiwan. With abundant practical experiences in production automation planning and in production improvement, we provide AGV system solutions for our customers in accordance of their actual demands in production, so as to assist our customers to fulfill automated and flexible production. The sister company of GreenTrans Corporation, Jiangsu GreenTrans Electromechanical CO., LTD, benefits from its location advantage, is fully capable of providing quality and rapid services in China. GreenTrans Automatic Guided Vehicle is your best choice for transport equipment.

Project Workflow

Demand confirmation

- Define the size, weight, and quantity of the goods.
- Define the type, size, weight, and quantity of the cargo container.
- Current size, turnover, and loading and unloading of the production line layout.

Simulation confirmation

- Simulated with Visual Component.
- Confirm the feasibility of the program.
- Confirm the frequency and beat of the logistics.

System design

- Define the number and location of the handling points.
- Define handling logic, beats, and turnover.
- Define the handling method, direction, and loop.
- Define the system control mode.

Installation

- Make relevant area.
- Wiring and installation.
- Write a control program.
- Make a control center.

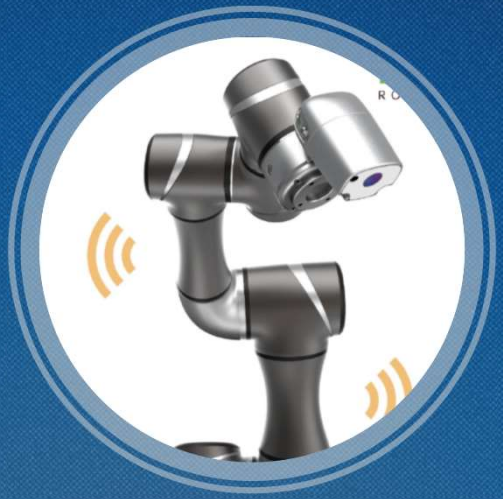
Mobile Robot

Mobile robot

T12 model with collaborative robot and AGV for your factory.

AGV

GreenTrans AGV with laser navigation, a safety Area sensor, and can directly supply power to the robot for system operation.



Collaborative robot

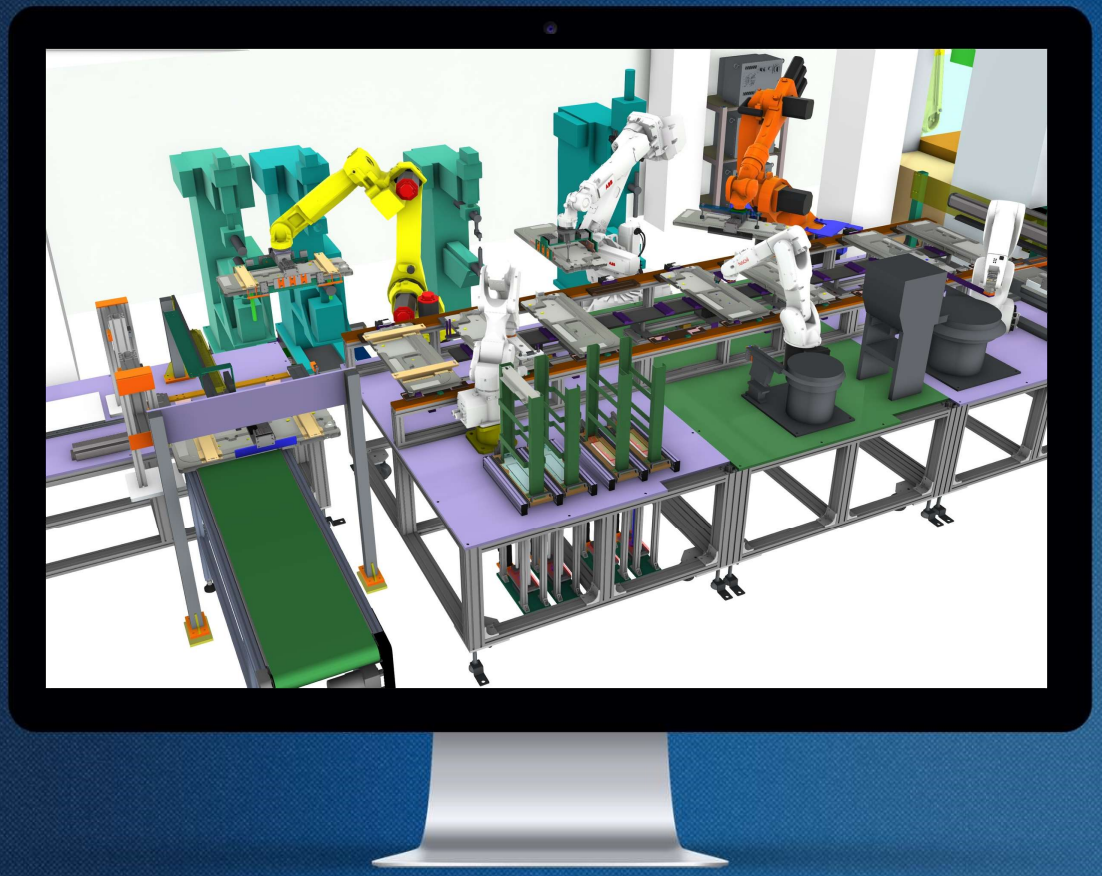
TM ROBOT with vision camera, after the object is identified, the deviation of the position can be calibrated.

Integration

Planning and simulating how the T14 working in your factory.

Digital Factory

Digital Factory



VISUAL COMPONENTS

The Visual Components 4.0 software platform includes a large library of 3D models of industrial robots, automation organizations, and logistics systems.

The 3D model includes intelligent parametric functions that quickly change the appearance, size, and functionality of 3D models, dramatically reducing the time required for modeling and layout. Together with the quick and easy-to-use functions of Visual Components 4.0, the simulation efficiency of robot simulation and logistics is greatly improved, making the layout and design of the automation system very fast and simple. It is an indispensable tool for planning automation equipment.

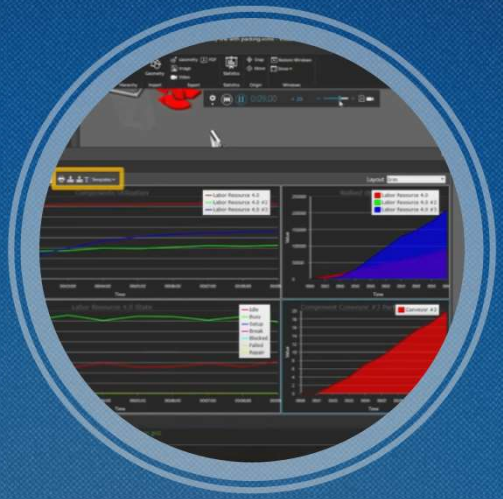
Application

Process

Simulation confirmation can be performed for the factory process.

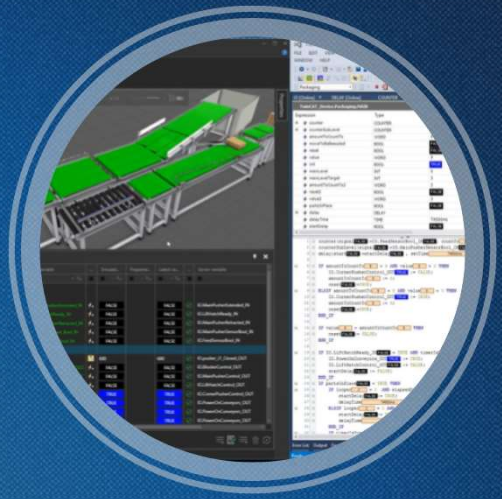
Automation

Automation and robot planning and design, verify the feasibility of the system, process, control.



Statistical

Perform statistics and analysis, learn about the advantages and disadvantages of the system, and optimization again.



PLC connection

The program and signal connection test can be performed through the OPC Server and the physical PLC.

Communication Platform

Cross-media platform

After completing the system planning with Visual Components 4.0, you can output the vacx file.

The EXPERIENCE experience version can be installed on a computer or mobile phone to open a 3D dynamic environment confirmation simulation program.

In addition, you can output the VR file format combined with the HTC VR helmet, you can directly watch and discuss.

Simulation Service

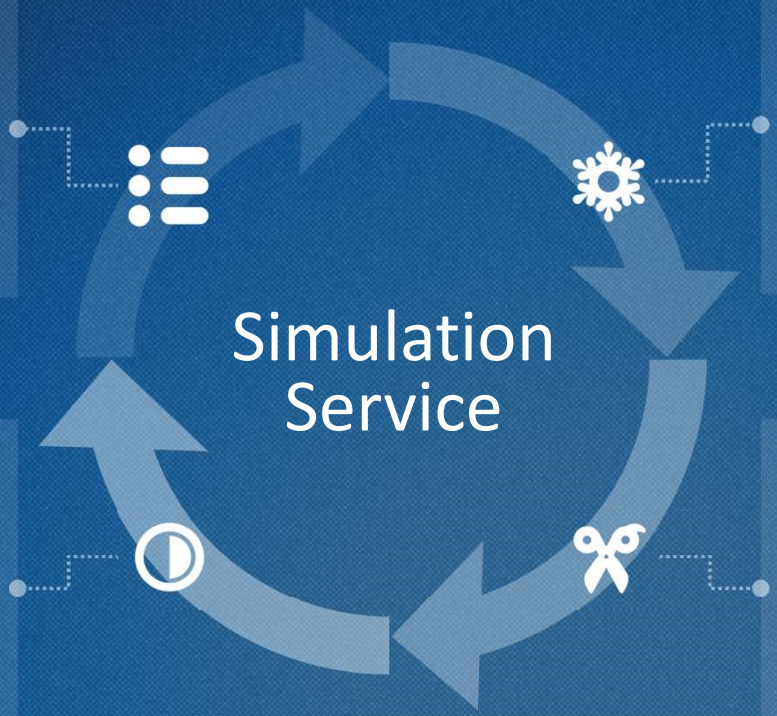
Simulation Service

Demand confirmation

After fully confirming the customer's needs, goals, and constraints, after starting the relevant models and data, prepare to build a model for analysis.

Model establishment

The model to be simulated with the starting data should be established in a direction close to the real object.



Analysis and recommendations

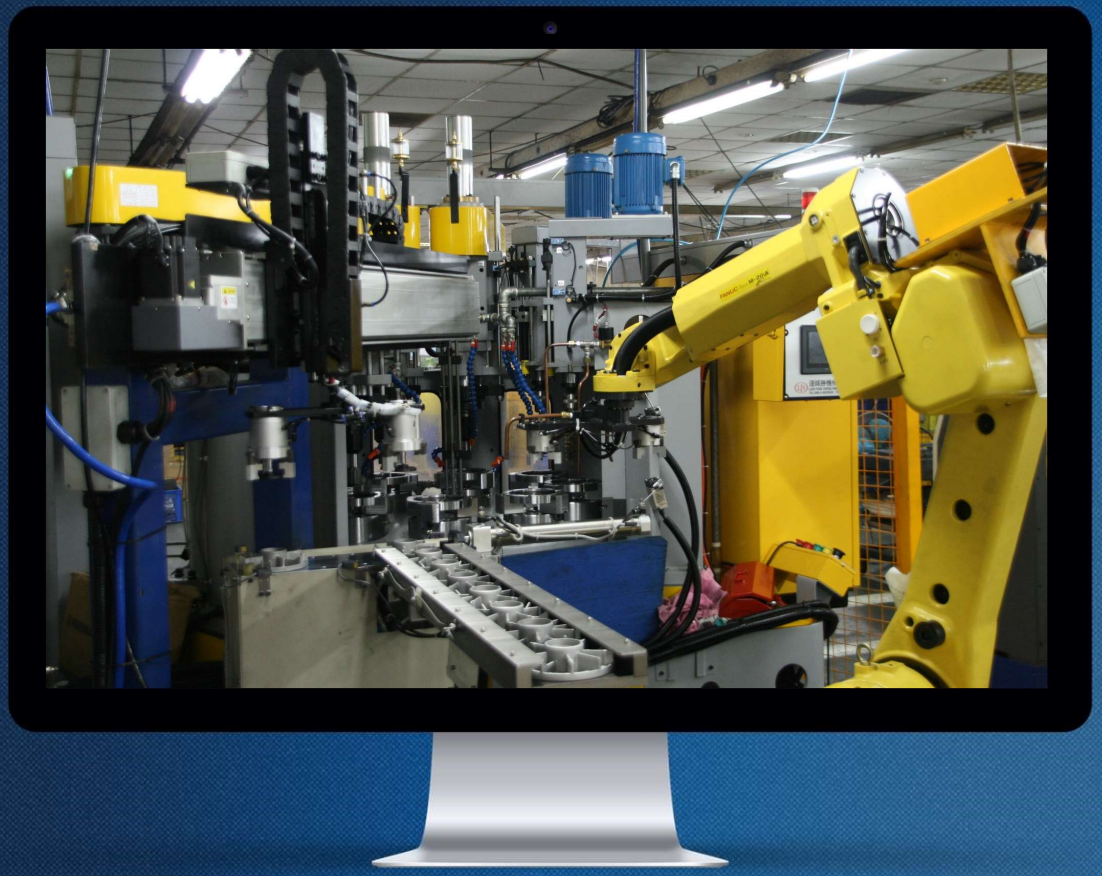
Produce analysis reports and explain and discuss with customers while exploring better potential solutions.

System simulation

After the simulation according to the right parameters, it includes the confirmation of the layout, organization, utilization, output and other items.

Success Story

Success Story



Virtual to reality

PrefactorTech discuss the demand from the customer, provide the possible solution with 3D simulation animation.

After reviewing with the customer, it gradually converges to a feasible solution, which includes confirmation of interference, utilization, layout, etc.

Eventually, the automation project will be implemented through contracts.

Customer

Customer

Automobile

- Yulon Motor, China Motor, Yamaha Motor, KYMCO Motor, Sanyang Motor, LioHo Machine, etc.

Electronics

- LiteOn, Inventec, iac, Kinpo, Transcend, Wistron, Moxa, Panasonic, Delta, Pegatron, Jabil

PCB

- WUS Printed Circuit、Unitech, etc

Machining

- China Precision Die Casting、HoTa Group。

Automation

- Chroma ATE Inc, GPM, Usuntek

Machine builder

- Tongtai , Victor Taichun, YCM、Deta Machine。

Research institution

- ITRI Taiwan、PMC

Shoe

- Pou Chen Group, FengTay

Robot

- EPSON、KUKA、ABB、TM。

Academic institution

- National Tsing Hua University, Tamkang University

Thank you

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