



TRAINING EQUIPMENT SOLUTIONS



FACTORY AUTOMATION SOLUTIONS



LIFE AUTOMATION SOLUTIONS

ETEK AUTOMATION SOLUTIONS JSC

COMPANY PROFILE

Ver: 16

Update: 26.12.2025

ETEK AUTOMATION SOLUTIONS JOINT STOCK COMPANY is a member of **TAN PHAT ETEK cooperation** and has become a pioneer in providing **Total Automation Solutions** in Vietnam.

Name of company	ETEK AUTOMATION SOLUTIONS (ETEK)
Founded year	2006
CEO	Nguyen Trong Thuong
President & Founder	Nguyen Quoc Dat
Parent Company	Tân Phát ETEK





ETEK History

Started with 6 members

Business expansion

Engaged in Industrial Automation solution business. Canon, Denso, Toyota became our first Japanese customers

Providing total automation solutions, being a strategic partner of many large firms, demonstrating our capability to act as EPC contractor for high-complexity, large-scale projects

Successful Exported to India, Arabic, Cambodia,

Education Training Equipment

Factory Automation Solutions
Education Training Equipment

Life Automation Solutions
Factory Automation Solutions
Education Training Equipment

Go GLOBAL

2006

2010

2012

2016

2017 - 2021

2022

2024

- Area : 25m2
- Employees : 6



Continued to cooperate with major partners on packaging solutions and Vision

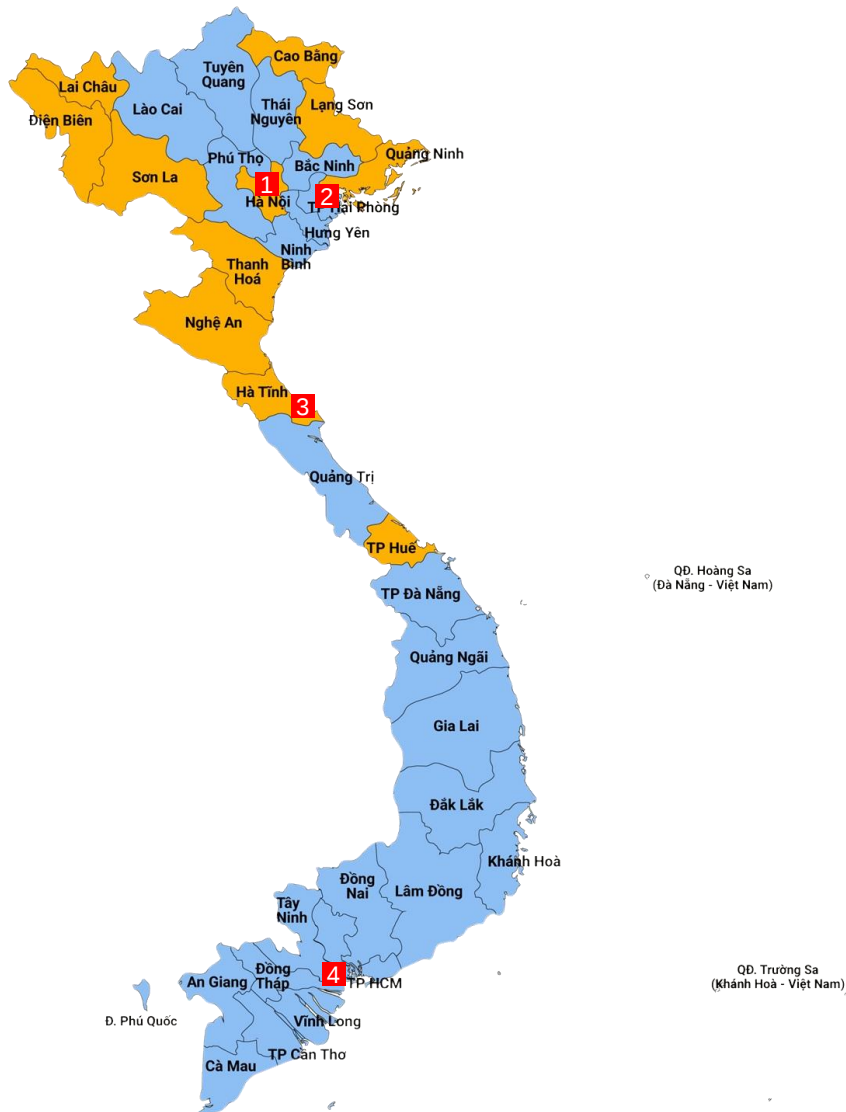
- Area: 250m2
- Employees : 48



- Focusing on training activities, developing specialized applications for each industry



ABB has cooperated with ETEK since 2010 and now ETEK is authorized as a Value Provider by ABB.



HA NOI

1



Total area: 10,000 m2

- 4-story building
- Multipurpose area
- Component assembly zone

HA TINH

3

Total area: 5,000 m2

- Representative office
- Product showroom

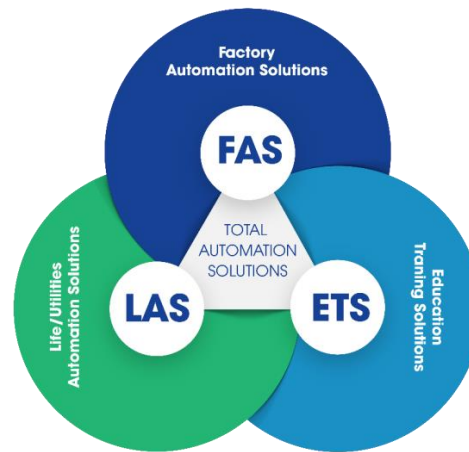
HAI PHONG

2



Total area: 2,000 m2

- Representative office
- Product showroom



HO CHI MINH

4

Total area: 7,000 m2

- Office area
- Multipurpose area
- Assembly zone

Infrastructure Resources



Building	Area	Function	Floors	Status
1	7,000 m2	Office	6	In use
2	4500 m2	Assembly Workshop	2	In use
	1000 m2	Clean Room		
3	7,00 m2	R&D Area	1	In Use
	350 m2	Showroom		
4	1,300m2	Finished Goods Warehouse	1	In use

Infrastructure Resources

Automation Equipment Assembly Workshop

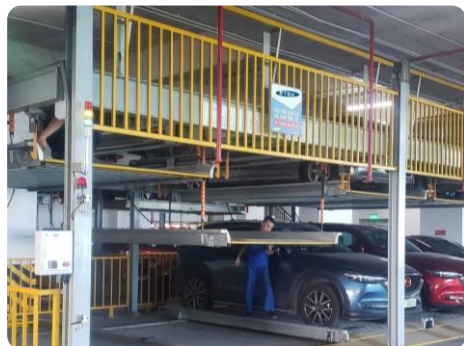
Total Area		5,500 m2
1	Clean Room	1,000 m2
2	Standard Assembly Area	4,500 m2



ETEK
TOTAL AUTOMATION SOLUTIONS

ASSEMBLY





Application Research and Development Center

Area	1,050 m2
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Key Development Applications



Products & Solutions



FAS – FACTORY AUTOMATION SOLUTIONS

1. Fabrication
2. Assembly
3. Packaging
4. Intralogistics
5. Smart Factory
6. Auxiliary Equipment



ETS – EDUCATION TRAINING EQUIPMENT

1. Training equipment for Universities, Colleges and Vocational schools
2. Automation Training



LAS – LIFE/UTILITY AUTOMATION SOLUTIONS

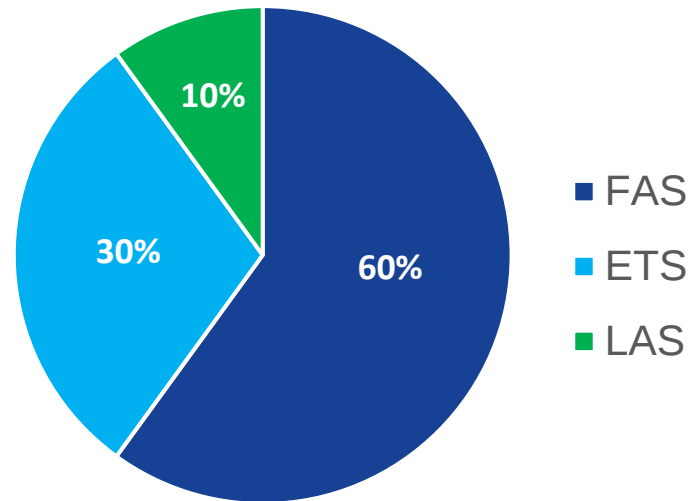
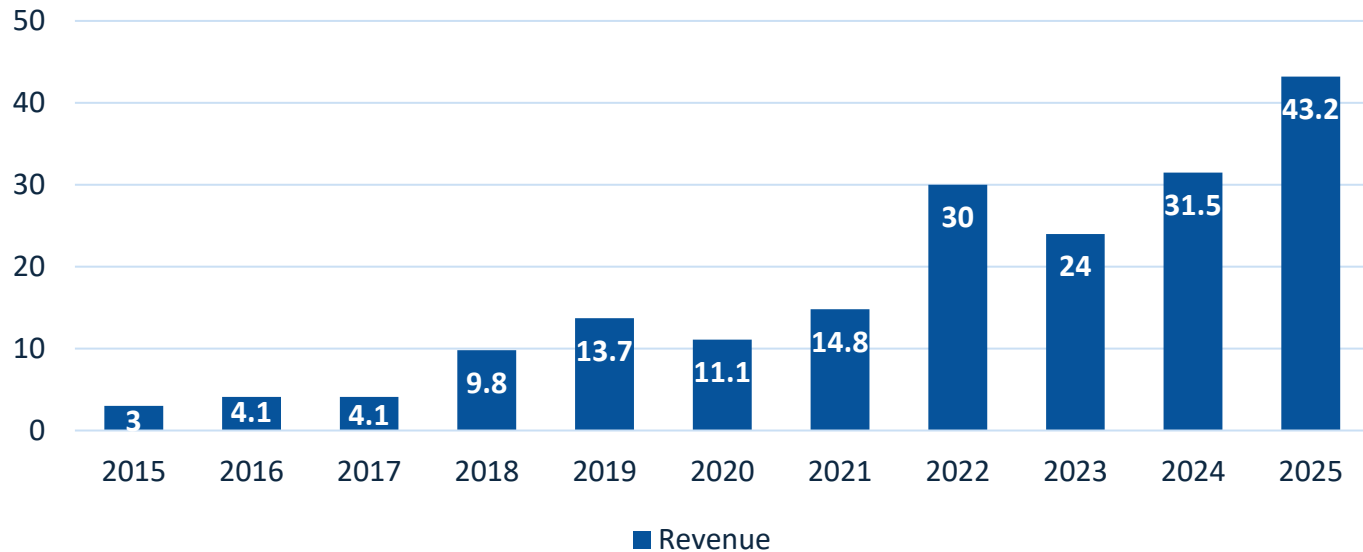
1. Automated Parking Solutions (Car, Motorbike)
2. EV Chargers
3. Vending Machine
4. Lifting equipment
5. Smart Locker
6. Smart Tool Cabinet



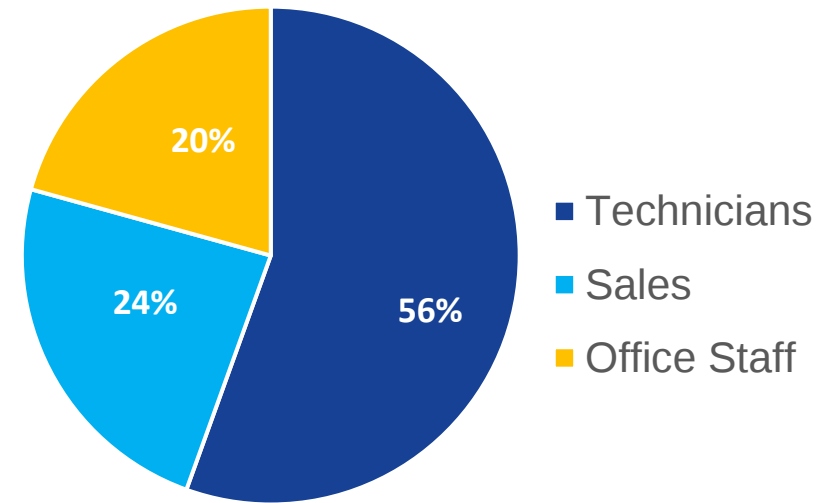
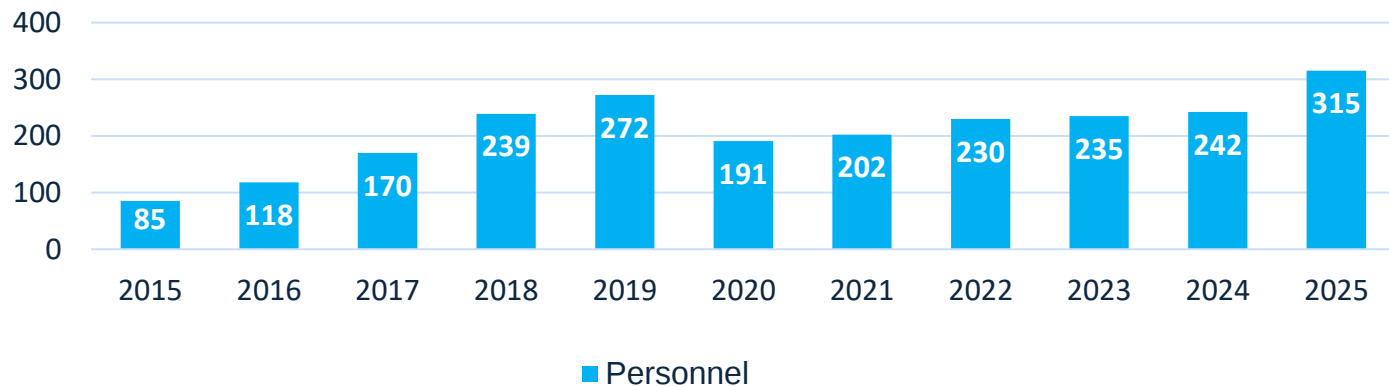
 Automotive & Components	 Plastic /Metal /Ceramic
 FMCG / Consumer /Chemical /Pharma /Medical	 Textile /Footwear
 3C Computer Communication, Consumer Electronics	 General Industries
 School	 Ecommerce
 Building	 Tourist area
 Home	 Hospital

- University, College
- Vocational school
- High school

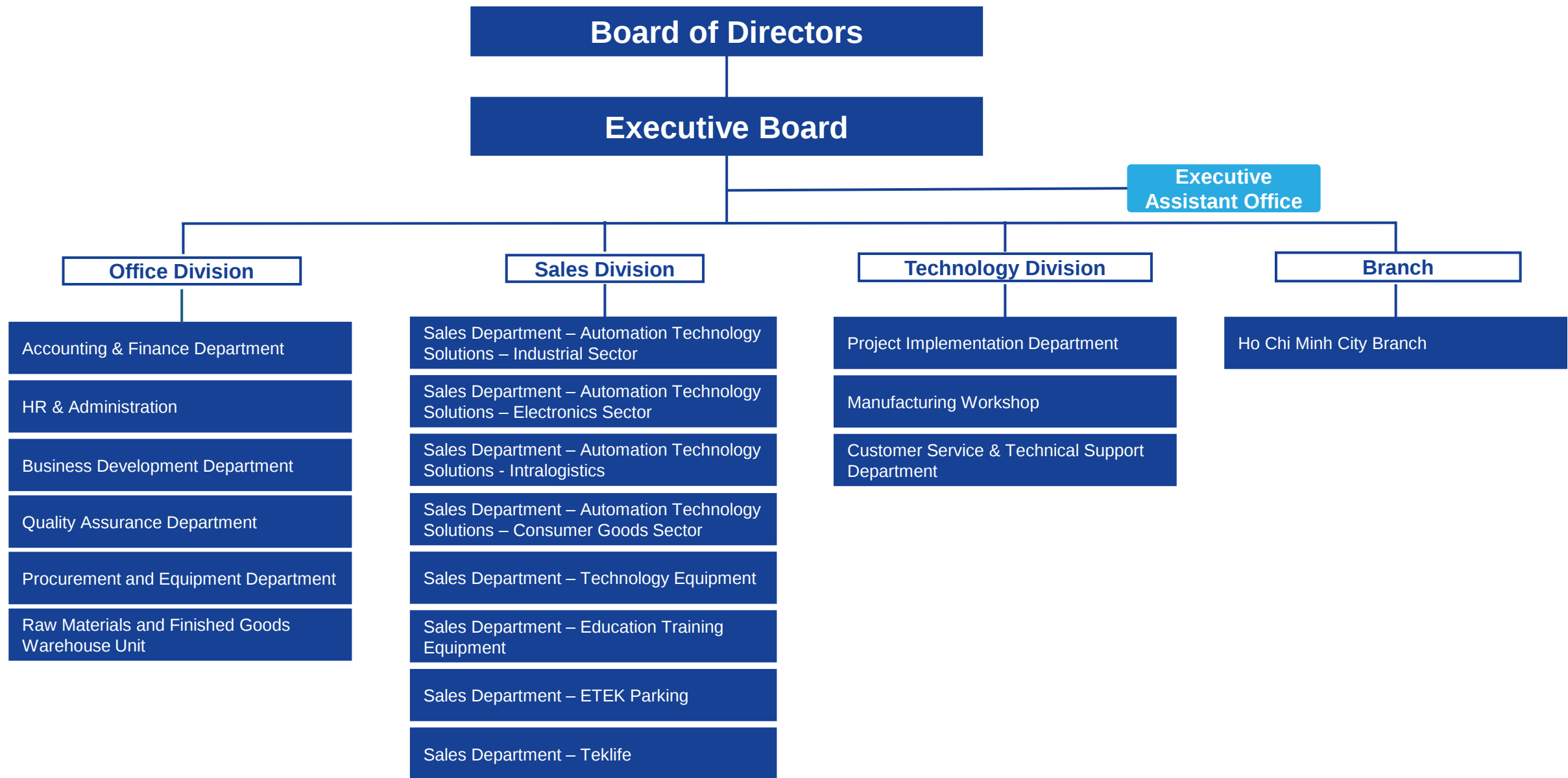
Revenue (Million USD)



Personnel



Organizational Structure



Engineering Resources & Capabilities

 **150+**

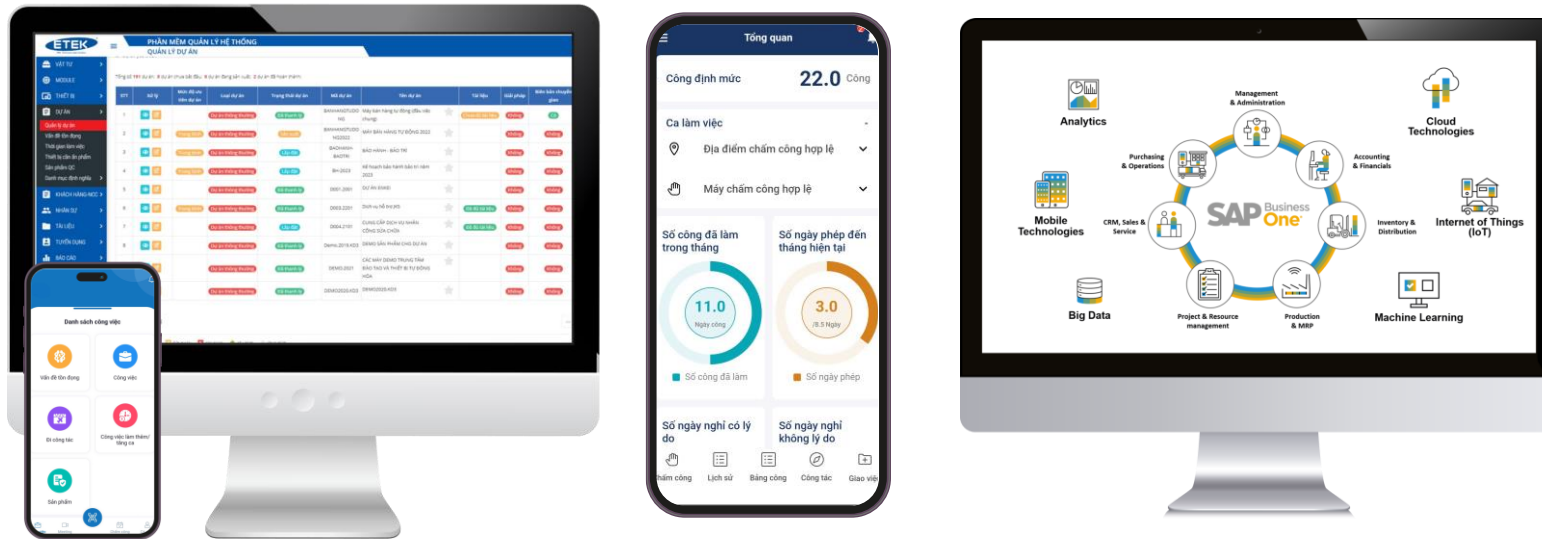
- Mechanical Design Engineer → 45 
- Electrical Design engineer → 48 
- Installation → 41 
- Services → 11 
- Project Manager → 12 

Typical ETEK Engineer Profile

- Over 5 years of hands-on experience
- Trained through real-world projects at ETEK & the Application Development Center
- Acts as lead engineer on at least 4 major automation projects
- Strong integration skills across mechanics, electronics, and software



◆ ETEK management system



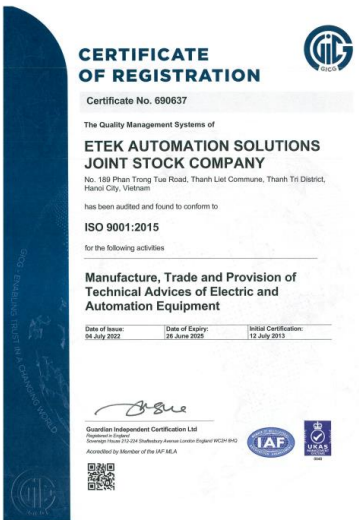
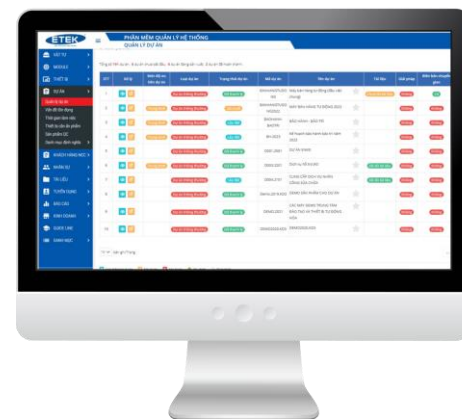
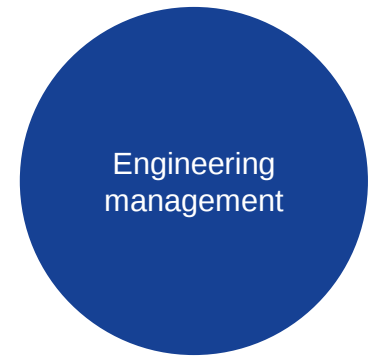
◆ Engineering design tools



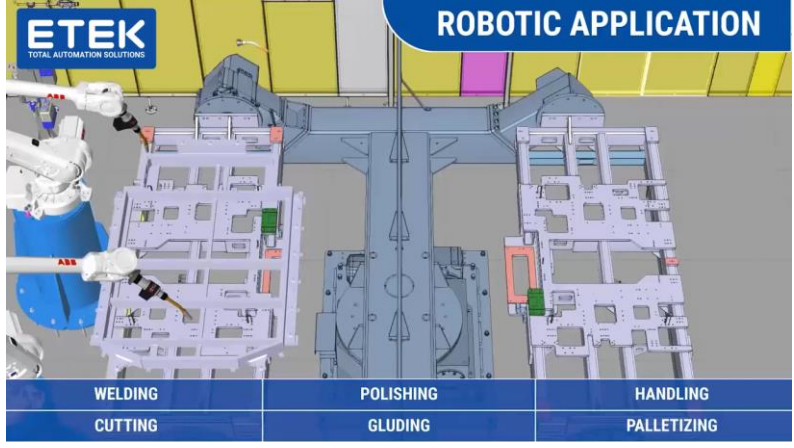
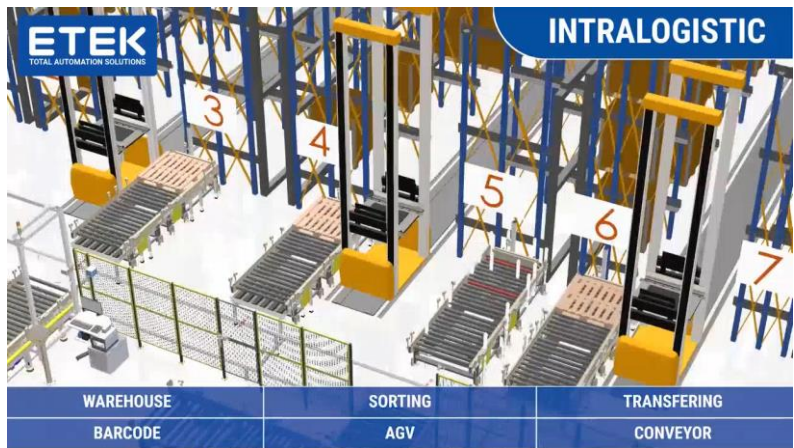
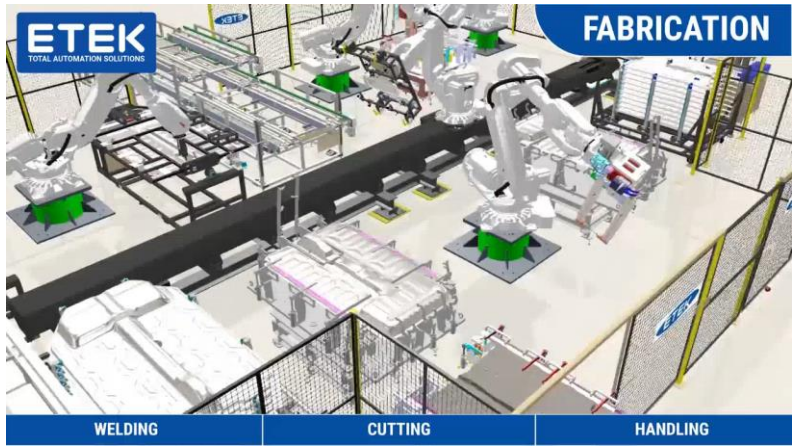
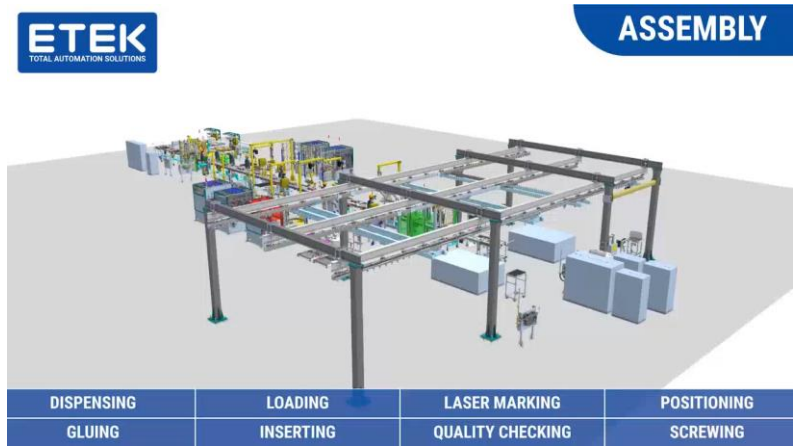
◆ Quality Management



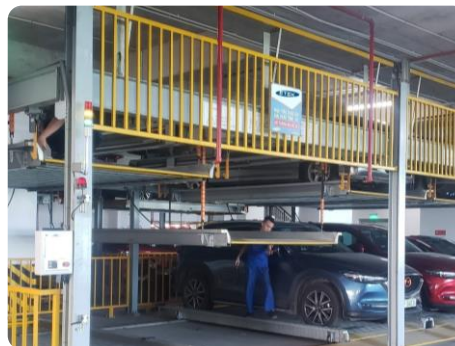
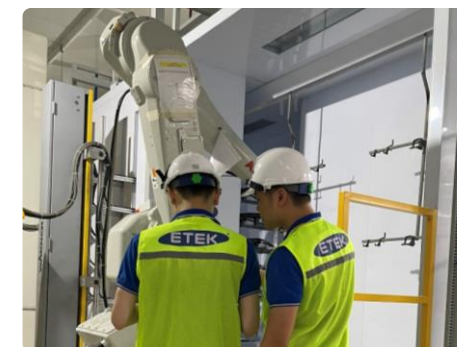
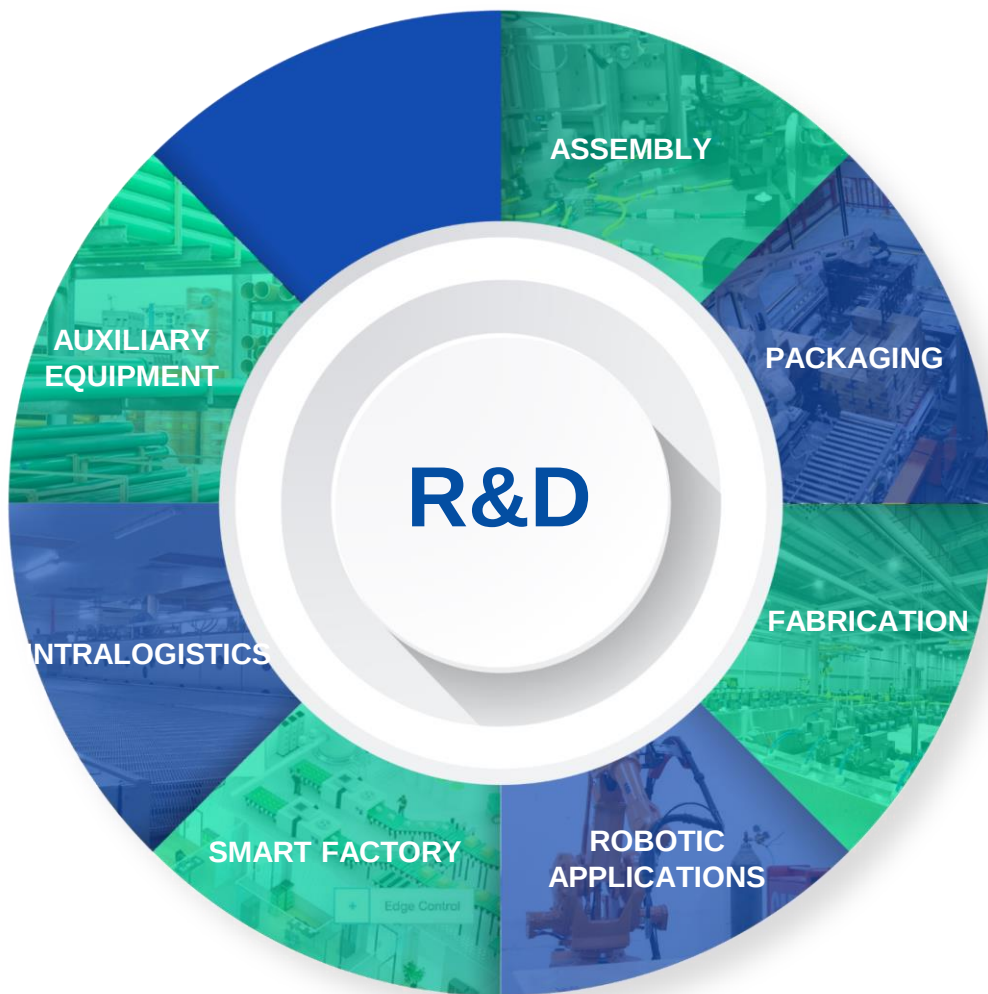
Q	• QUALITY
D	• DELIVERY
C	• COST
S	• SCOPE • SAFETY • SECURITY • SATISFACTION • SERVICES



3D Simulation Tools



Training and Application Development Center



Partners

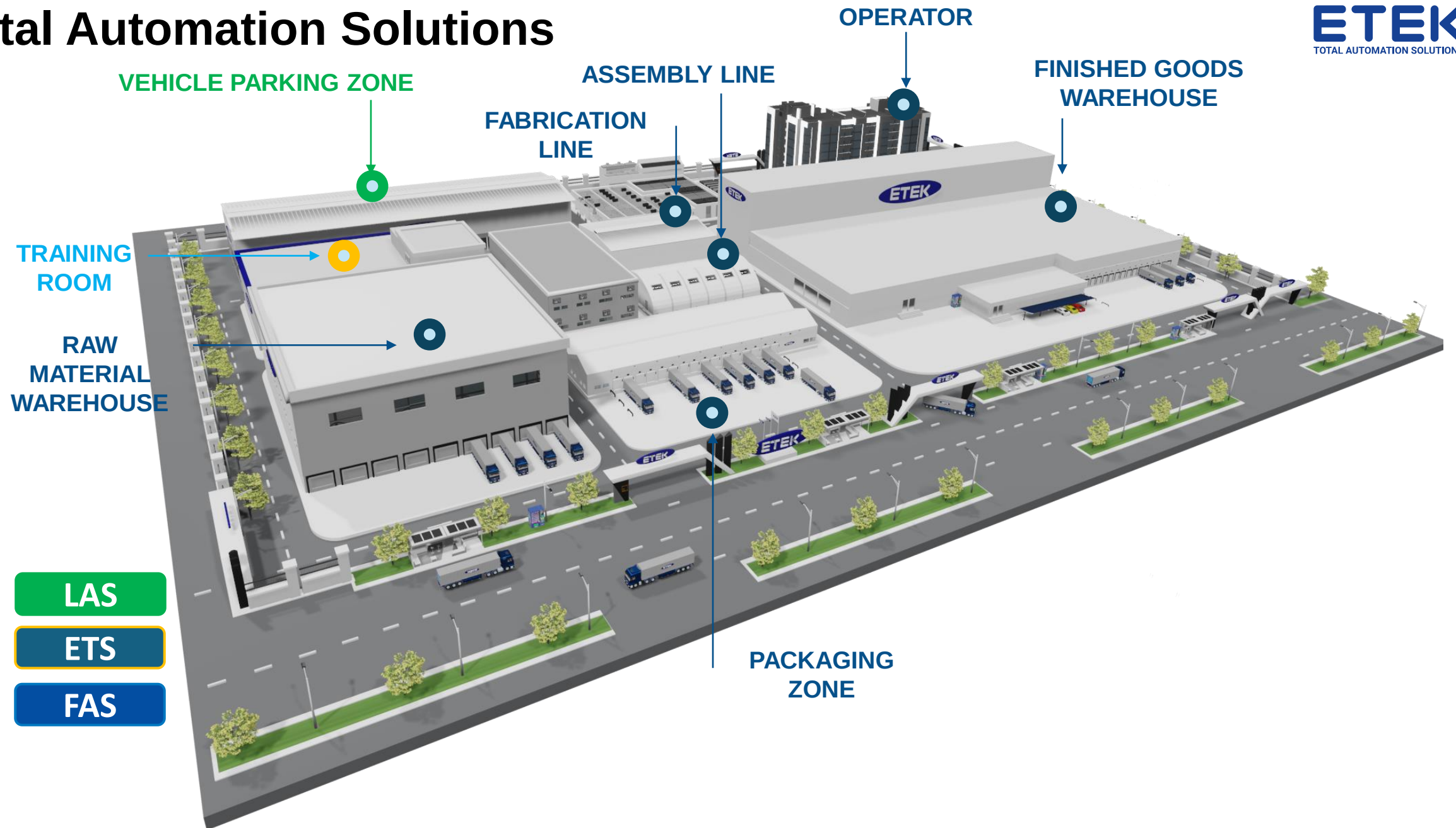




COMPREHENSIVE AUTOMATION SOLUTIONS FOR INDUSTRY



Total Automation Solutions



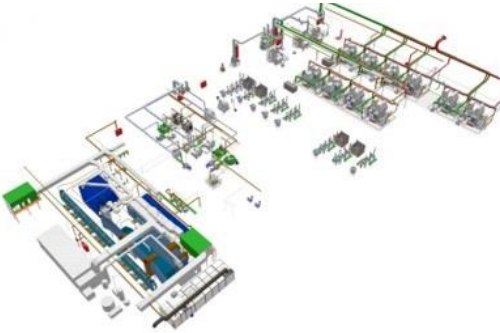
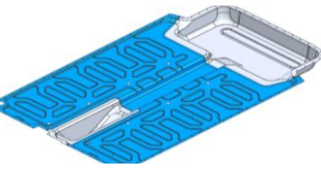
Overview

ETEK has successfully delivered hundreds of fabrication projects involving both metal and plastic components. Representative examples include:

- Automotive Aluminum Parts Fabrication Factory
- EV Battery Top Cover Fabrication Line
- EV Battery Housing Fabrication Line
- Powder Coating Line for Automotive Components
- Plastic Injection Molding Factory for Automotive Parts
- Aluminum Extrusion Manufacturing Facility

Customer & Partner



Product	Key Technology	Layout	Key Process
 Metal	• Die casting • CNC Machining • Rim spray cleaning • Powder coating • Wet panting		1. Melting & Furnaces 2. Die casting 3. X-ray 4. Shot Blasting 5. CNC Machining 6. Cleaning 7. Panting
 Aluminum sheet	• Spot welding • CNC • Gluing • Leak test		1. Gluing 1st 2. Spot welding 3. Gluing 2rd 4. Glue curing 5. Leak test 6. Dimension check
 Metal	• MIG welding • Fiction welding • Ultrasonic cleaning • Riveting • CNC machining • Leak test		1. Cleaning 2. TIG welding 3. CNC Machining 4. Friction welding 5. Riveting 6. Cleaning 7. Leak test

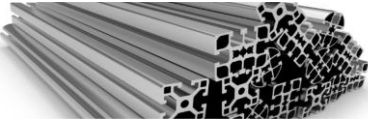
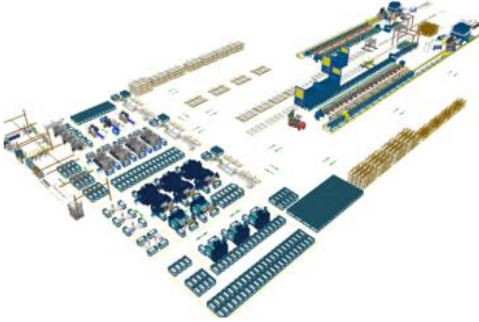
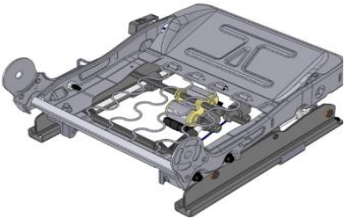
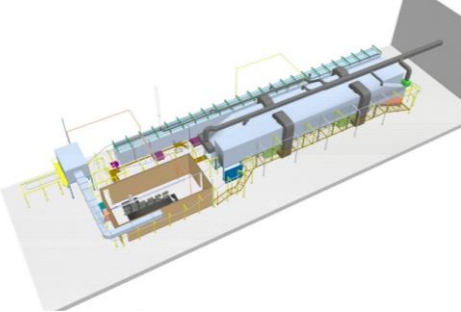
Overview

With proven experience in engineering, advanced technology, and end-to-end project execution, ETEK is fully capable of delivering total fabrication solutions for a wide range of industries, including:

- Automotive & Auto Parts
- Plastic and Metal Manufacturing
- FMCG and Chemical Industries
- 3C (Computer, Communication, and Consumer Electronics)

Customer & Partner



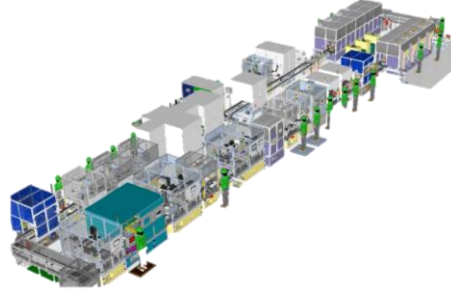
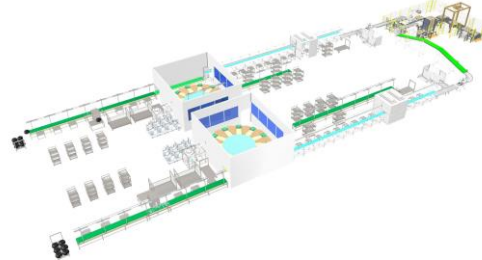
Product	Key Technology	Layout	Process
 Shaped aluminum	• Aluminum extrusion • Saw Cutting • Quenching		1. Log Loading 2. Log Furnace 3. Hot Sawing 4. Extrusion 5. Quenching 6. Sawing 7. Cooling 8. Stretcher
 Plastic	• Plastic Injection molding		1. Mix material 2. Loading 3. Insert trill part 4. Injection molding 5. Robot auto unload 6. Checking 7. Packaging
 Metal panting	• Spay surface preparation • Powder coating • Wet painting		1. Loading 2. Pretreatment 3. Dry off Oven 4. Powder Booth 5. Curing oven 6. Cooling 7. Inspection 8. Unloading

Overview

Our deep expertise in assembly techniques - utilizing a wide range of components - enables us to deliver turnkey projects across multiple industries. These include production volumes ranging from 25,000 to 450,000 parts per year, with solutions spanning manual, semi-automated, and fully automated operations.

Customer & Partner



Product	Key Technology	Layout	Key Process
 Small	- Traceability - product management - PCB checking, - Aging - Function test, packing		1. Gluing 2. Inserting 3. Welding / Soldering 4. Auto screw fastening 5. Auto riveting 6. Pick and place
 Medium	- Precision Handling & Positioning - Assembly & Joining - Measurement & Testing - Machine Vision - Part Traceability & Quality Data Management - Flexible Manufacturing - Large Interlinked System Software - Enterprise Manufacturing Systems Integration		1. Dispensing 2. Loading 3. Laser Marking 4. Positioning 5. Press-Fitting 6. Gluing 7. Assembly & Coating 8. Vision 9. Mounting
 Large			1. Sorting 2. Insert 3. Leak test 4. Vision check 5. Cleaning 6. Metal Plate Top insert 7. Screwing

Reference Projects - FAS

Assembly



Electric Vehicle Power
Assembly line



Battery Packs assembly
line



Electronic component
assembly line



Water heater assembly
Line



anti fog glue dispensing
machine

Fabrication



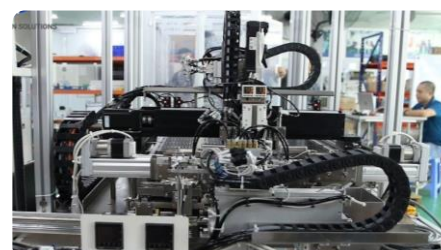
Aluminum Die Casting
Factory



Automatic welding line



Automatic Painting and
Coating line



Automatic Plastic Gate
Cutting Machine



Exporting The Paints Line
to India



Packaging solution

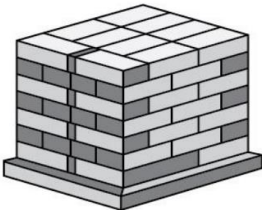
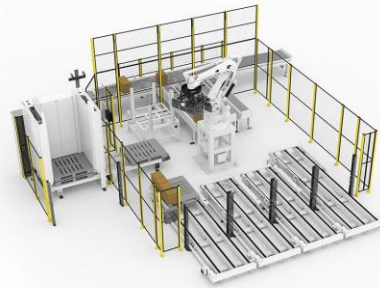
Overview

Choosing the right packaging partner involves several key considerations:

- Rapid response time to maximize equipment uptime
- Local project management for effective execution
- Cost-efficient solutions through licensed manufacturing (where applicable)
- Long-term strategic partnership, not just product supply

Customer & Partner



Product	Key Technology	Layout	Process
 Primary packing	• Computer vision • Robot pick and place • Data acquisition • WISE-PaaS		1. Bottle feeding 2. Filling 3. Wrapping 4. Sorting 5. Data printing 6. Inspection
 Secondary packing	• Robotic pick-and-place system • Flexible conveyor • Barcode/QR Code		1. Case erecting 2. Case packing 3. Case sealing 4. Label printing 5. Weight checking
 Tertiary packing	• Robot palletizer • Servo driven		1. Palletizing 2. Stretch wrapping 3. Top covering 4. Corner inserting 5. Pallet labeling

Reference Projects - FAS

Primary Packaging



Robotic Bottle Unscrambler



Tea Bags Packaging

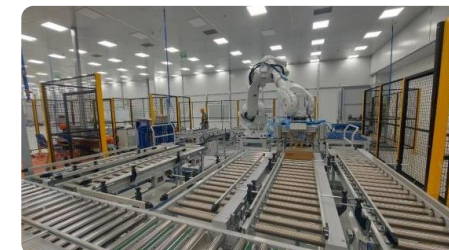


Robotic Case Packer Machine

Secondary Packaging



Gypsum Board Packing Line

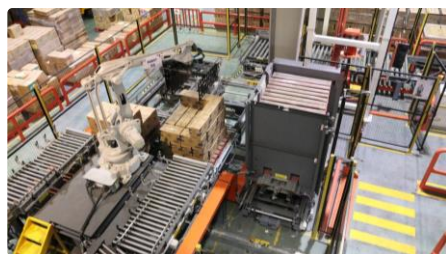


Battery Cell Packaging Line

Tertiary Packaging



Depalletizer



Palletizer



Wrapping machine



Automatic Bagging Line



Beverage Packaging Line.



Overview

ETEK offers extensive expertise in intralogistics and material handling solutions, leveraging a wide range of technologies including industrial robots, gantry systems, floor and overhead conveyors, EMS (Electrified Monorail Systems), RGVs, AGVs, and high-bay warehouses with rack-supported buildings using precoated sheets and insulated panels.

Our turnkey solutions are tailored to each application and customer need, covering the following areas

Customer & Partner



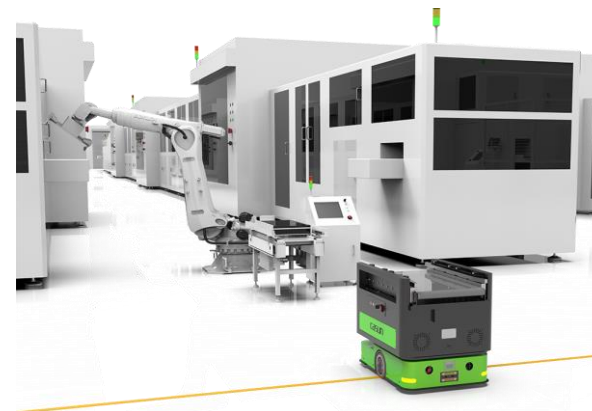
Product

Production Line

Key Technology

- Smart Conveyor.
- AGV: Slam, Qr Code
- AMR

Layout



Key Process

1. Handelling
2. Bin-picking
3. Order picking
4. Pick & place
5. Pallet storage
6. Pallet transport

Raw material

- AS/RS
- Vertical
- Stacker Cranes
- Software & Control Solutions
- Totes, Bins & Tray Storage
- Smart Conveyor.
- AGV: Slam, Qr Code
- AMR



1. Bin-picking
2. Container emptying
3. De-stacking
4. Order picking
5. Pick & place
6. Stacking
7. Truck loading & unloading
8. Other handling & picking
9. Pallet storage
10. Pallet transport

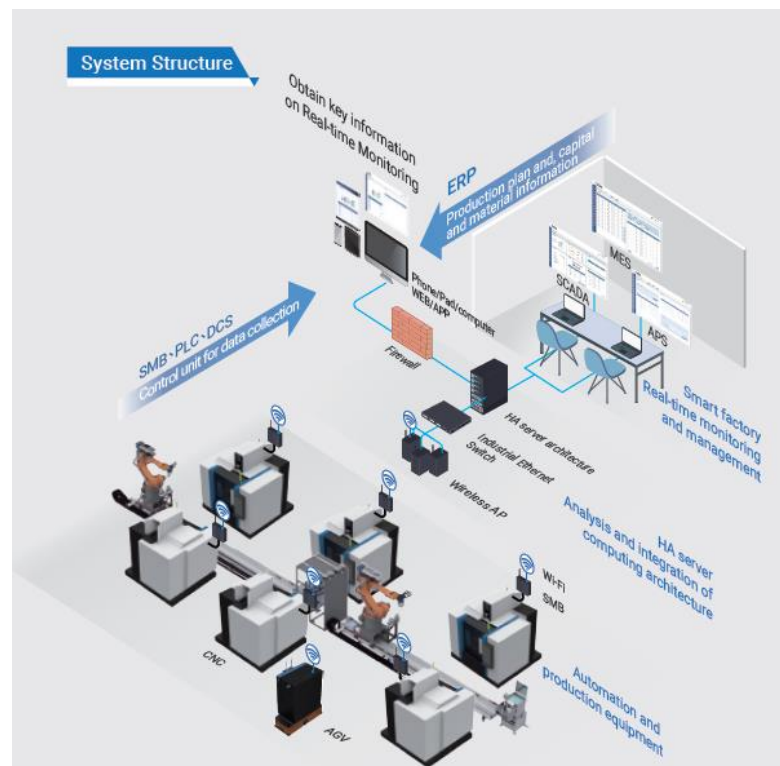
Overview

Develop a clear vision and roadmap for Smart Factory implementation. Leverage data from the entire production ecosystem to create added value.

Customer & Partner



Layout



Maintenance reminder

- Maintenance checklist
- Maintenance intelligent alarm

Analysis error and feedback

- Error alarm and analysis

Power System Monitor

- Time period energy analysis
- Peak power consumption statistics
- Optimal contract capacity suggestion

Function

Systematic management

- Material and warehouse management
- Order management
- Production recipe management

AI production scheduling

- Automatic scheduling
- Order and production scheduling

Job Report System

- Designing job report system by user process
- Controlling production status according job report system

Tracking WIP real-time status

- Input and output statistics
- Progress management
- Yield statistics

Customized board with real-time display for factory production status

Real-time monitoring equipment information

- Equipment OEE
- Health diagnosis
- Important real-time information

Reference Projects - FAS

Intralogistics



Automated storage and retrieval systems



Smart Conveyor System



Automation Guided Vehicle

Smart Factory



Manufacturing Execution System – MES



EcoStruxure™ Augmented Operator Advisor



Automotive
& Components



FMCG



And more





DIDACTIC EQUIPMENT



Product Categories for Research / Experimentation

1 Aerodynamic

2 Alternative Energy

3 Control Engineering

4 Electrical Systems

5 Engineering Science

6 Engines

7 Environmental Control

8 Fluid Mechanics

9 Material Testing and Properties

10 Mechanical Structures

11 Process Control

12 Basic Principles of Statics

13 Theory of Machines

14 Thermodynamics

15 Automation | Industry 4.0

16 Embedded Computers/Microcontrollers

17 Electronic Circuits



Product Categories for Skills Training

1 Mechatronics

2 Electronics

3 Electrical – Automation

4 Pneumatics – Hydraulics

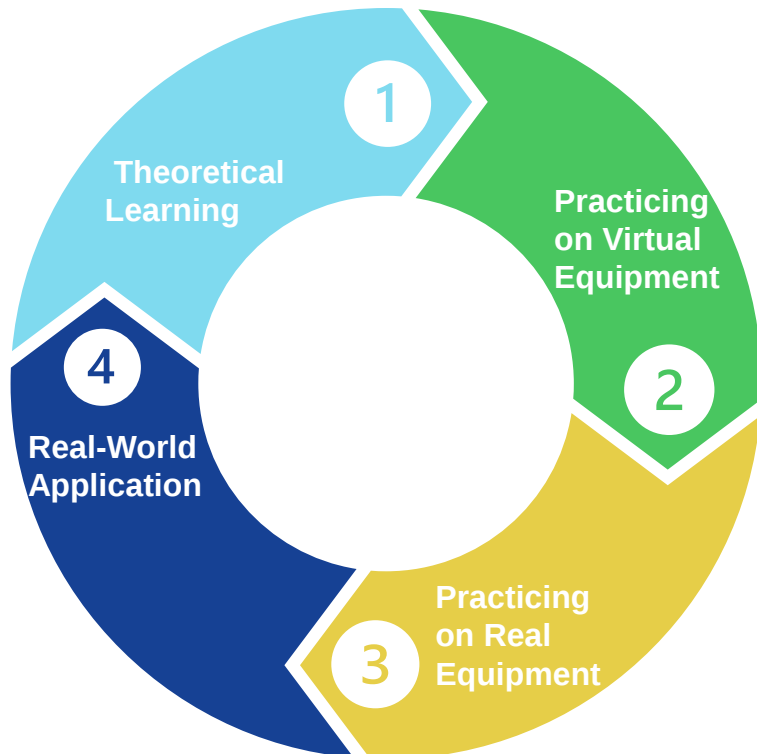
5 Refrigeration Technology

6 Pilot Production

7 Auxiliary Equipment

8 Electricity Generation and Transmission

9 Microprocessing and Control



4

Leveraging extensive experience across three core domains - Industrial, Civil, and Educational Equipment - ETEK delivers comprehensive product sets that offer students hands-on experience closely mirroring real-world factory environments. These practical experiences help learners develop technical knowledge and skills that align with the needs of modern businesses and manufacturing facilities.

3

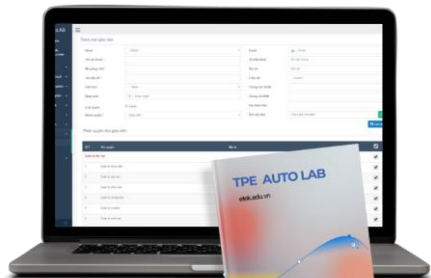
ETEK provides integrated training models equipped with components from globally recognized brands, designed for both research and practical application. These systems enable students to explore key concepts such as component connectivity, equipment safety, and control logic using real industrial-grade equipment in a safe, training-focused environment.

2

Our product and software platforms support circuit design, measurement, and testing through virtual simulation environments - including interactive schematic diagrams, 2D layouts, and 3D models - enhancing conceptual understanding and practical confidence.

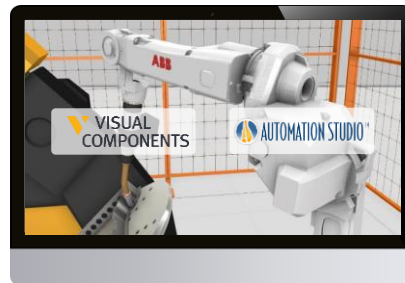
1

ETEK also offers training kits designed to support foundational theory instruction, featuring guided lectures, modular lesson content, and a wide range of interactive multiple-choice assessments to reinforce learning.



1

TPE-AutoLAB
Theoretical Learning



2

Practicing on Virtual Equipment



3

Practicing on Real Equipment

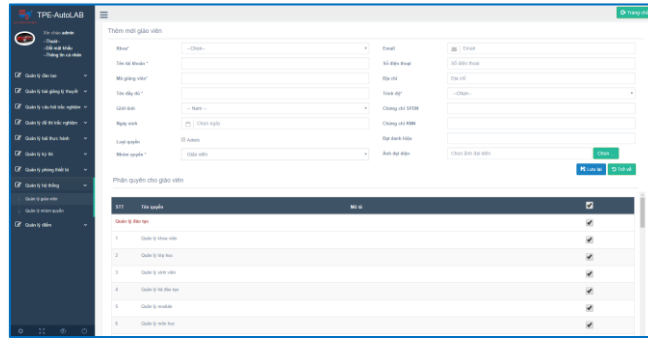


4

Real-World Application

LEVEL I Theoretical Research

ETEK provides cloud-based learning platforms that support foundational theory instruction, including interactive lectures and a broad set of multiple-choice assessments designed to reinforce key concepts.



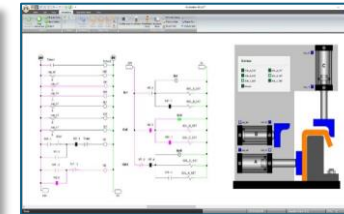
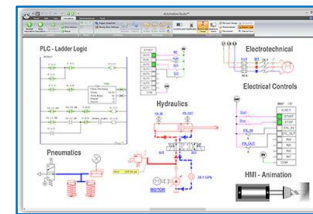
LEVEL III Hands-on Training with Real Equipment

Using industrial-grade training kits, students engage directly with real hardware, gaining practical experience in component handling, system integration, and safe operational procedures.



LEVEL II Virtual Simulation & Experimentation

Students use simulation software to model principles, test circuit diagrams, and develop system programming in a virtual environment. These tools allow learners to validate theoretical knowledge and practice measuring parameters under simulated circuit conditions.

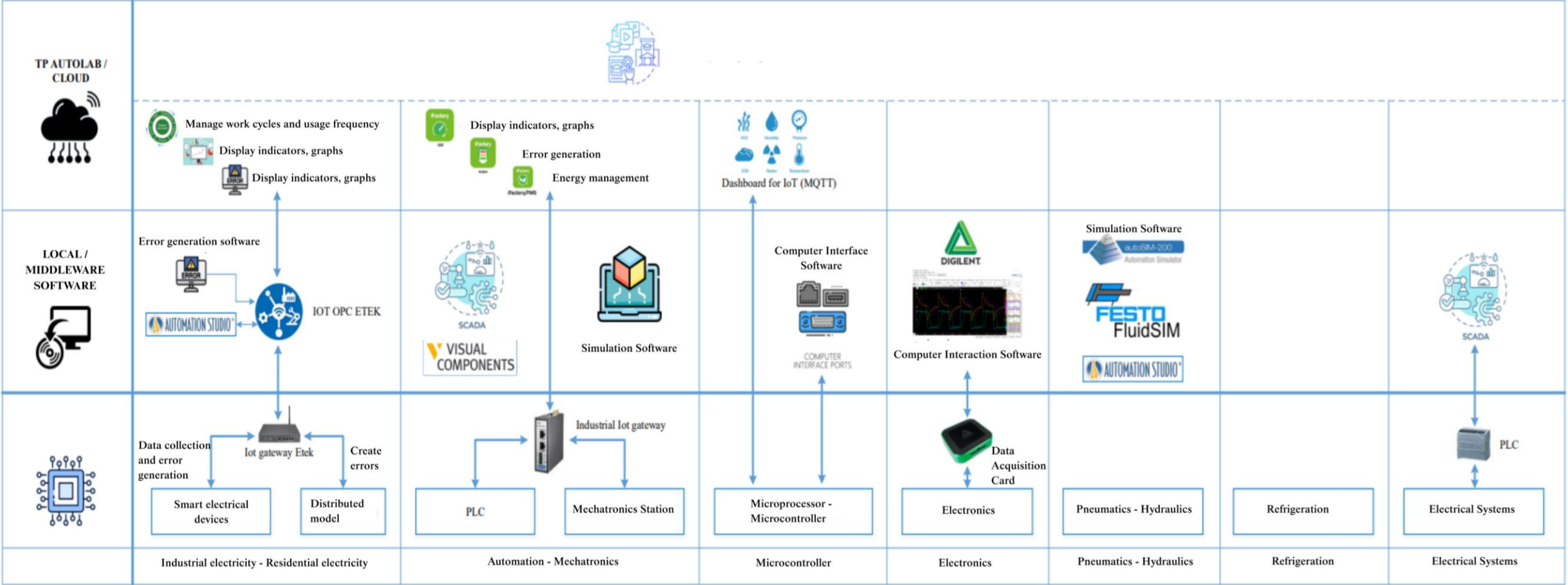


LEVEL IV Applied Skills for Real-World Environments

Learners develop professional competencies in assembly, wiring, programming, and system operation under conditions that closely replicate actual factory settings including clean rooms, hazardous environments (e.g. chemical exposure), and elevated workstations.



ETEK Technology Layers



Reference Projects - ETS



Distributed Control System



Smart electrical devices



Pneumatic training equipment



Electrical equipment practice room



Hydraulic equipment practice room



Hydraulic equipment practice laboratory



Flexible Manufacturing System - FMS



Industrial Robot Demo



Robotic Practical laboratory



Electrical safety practice equipment





PUBLIC-USE EQUIPMENT



Car Parking

Overview

ETEK is a leading provider of automated parking systems, offering smart, space-efficient solutions tailored to modern urban needs.

Leveraging advanced technology and a team of experienced specialists, we have delivered intelligent parking systems with capacities of up to 1,000 vehicles. Our solutions have earned consistently positive feedback from clients for their reliability, safety, and operational efficiency.

Customer & Partner



Products



Automatic Parking Puzzle



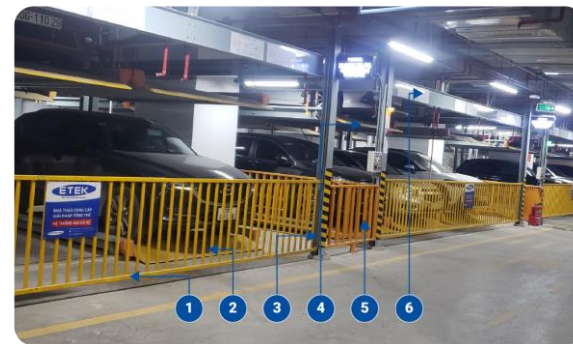
Automatic parking Robocar



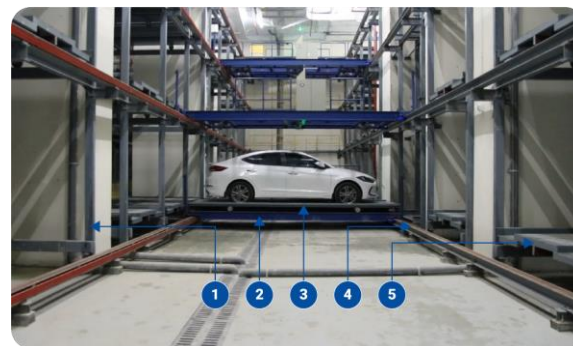
Automatic parking Robotic

Key Technology

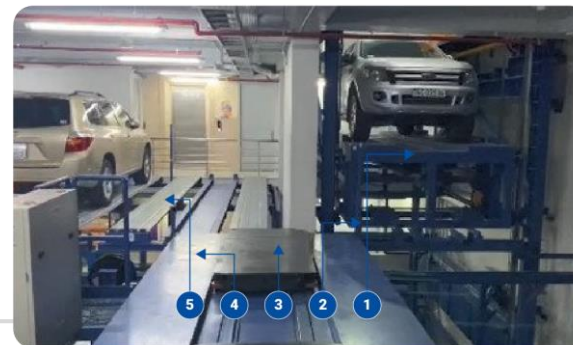
Layout



1. Automatic door
2. Large car carrier on the 1st floor
3. Plinth
4. Large car carrier on the 2nd floor
5. Safety fences
6. Horizontal beam



1. Steel frame
2. Vehicle compartment
3. Cart
4. Car carrier deck
5. Ray navigation



1. Lifting machinery
2. Ray navigation
3. Vehicle clamping robot
4. Cart
5. Vehicle compartment

Reference Projects – LAS

Fully automated parking system



Robotic technology parking system



Robocar technology parking system

Management software



The controlling system



EcoStruxure™ Augmented Operator Advisor

Semi-automated parking system



Puzzle technology parking system



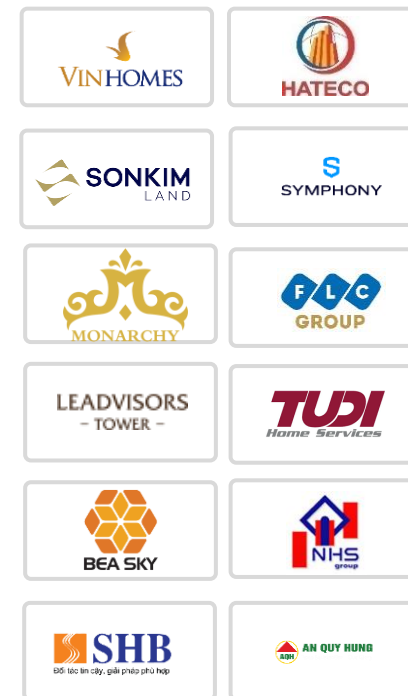
Puzzle technology parking system



Puzzle technology parking system



Puzzle technology parking system



Reference Projects – LAS

Car lift



Scissor Lifts



4-pillar lift



2-pillar lift



1 post lift

Motorcycle lift



2-storey motorbike parking system

Car turntable



Turntable parking system

EV Charging

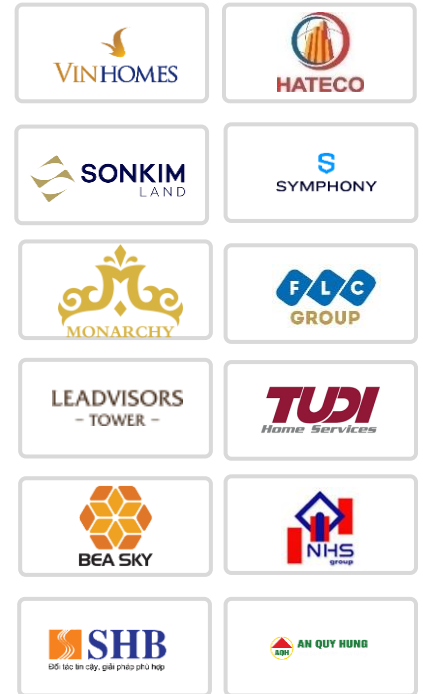


EV Charging systems

Lock parking position



Lock parking position



Vending Machine



Collaborative Activities



Internal Activities



Community Activities



*Thank
you*

ETEK AUTOMATION SOLUTIONS JSC

Headquater

189 Phan Trong Tue Road, Thanh Liet Ward, Thanh Tri Dist, Hanoi, Vietnam

Ho Chi Minh Branch

No 1 Le Duc Tho Road, Tan Thoi Hiep Ward, 12 District, Ho Chi Minh, Vietnam

info@etek.com.vn

www.etek.com.vn