



**TRAINING EQUIPMENT SOLUTIONS**



**FACTORY AUTOMATION SOLUTIONS**



**LIFE AUTOMATION SOLUTIONS**

# ETEK AUTOMATION SOLUTIONS JSC

## COMPANY PROFILE

Ver: 16

Update: 27.06.2025

# About us

**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

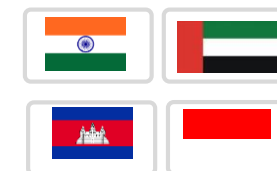
2024

- 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.





Hoàng Sa



Trường Sa

## HÀ NỘI

1



**Total area: 10,000 m2**

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

## NGHỆ AN

3

**Total area: 5,000 m2**

- Representative office
- Product showroom

## HẢI PHÒNG

2



**Total area: 5,000 m2**

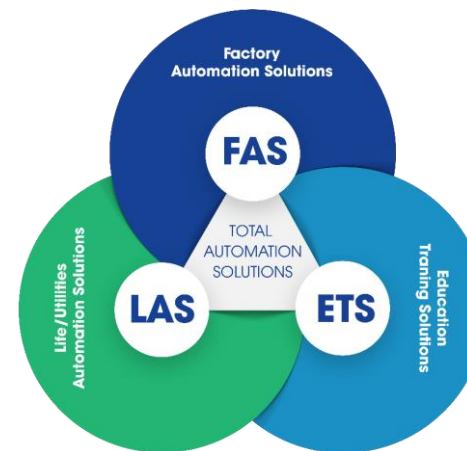
- Representative office
- Product showroom

## TP HỒ CHÍ 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	8,000 m2	R&D and Application Center	4	In use
		Assembly Workshop		
		Clean Room		
3	7,000 m2	Manufacturing Area	1	Under planning
4	13,00m2	Finished Goods Warehouse	1	In use



# Infrastructure Resources

## Automation Equipment Assembly Workshop

Total Area		7,000 m2
1	Clean Room	4,000 m2
2	Standard Assembly Area	3,000 m2



**ETEK**  
TOTAL AUTOMATION SOLUTIONS

ASSEMBLY



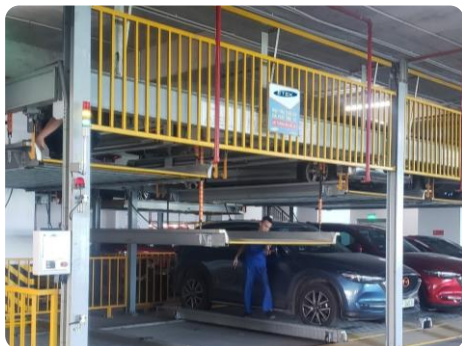




## Application Research and Development Center

Area	3,000 m2
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### Key Development Applications



# Products & Solutions

## FAS – FACTORY AUTOMATION SOLUTIONS

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



## ETS – EDUCATION TRAINING EQUIPMENT

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



## LAS – LIFE/UTILITY AUTOMATION SOLUTIONS

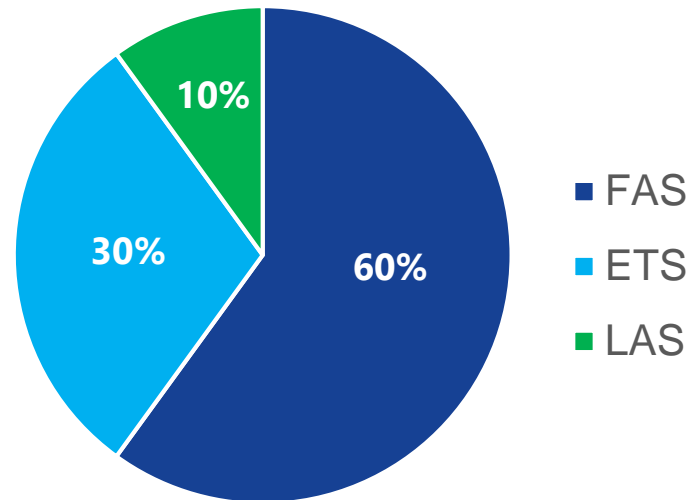
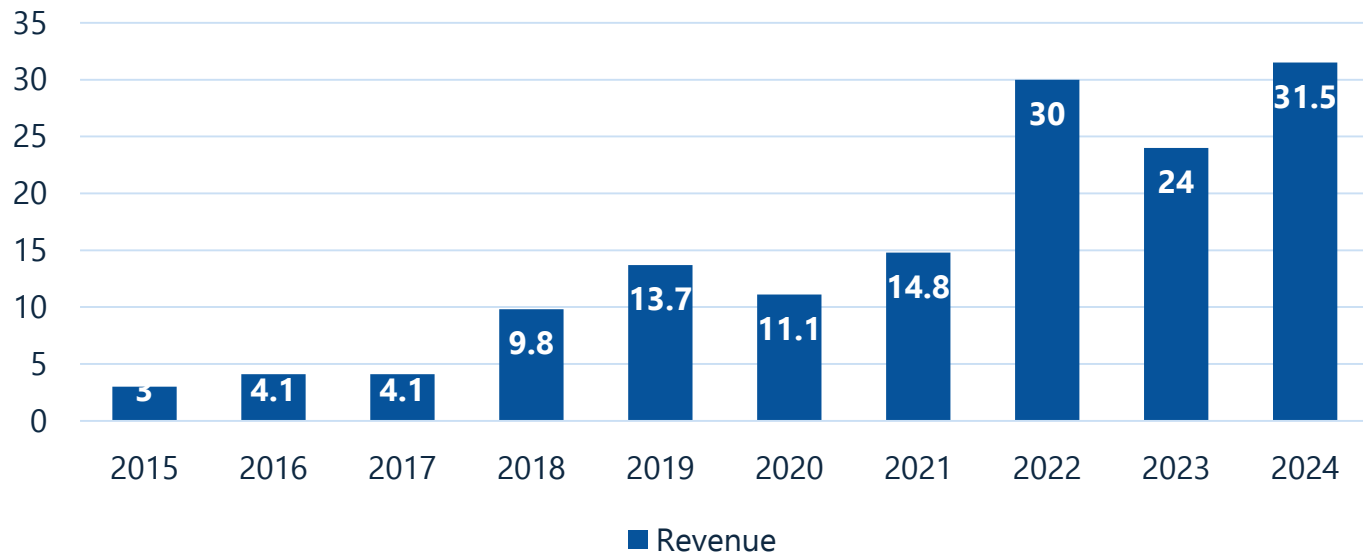
1. Automated Parking Solutions (Car, Motorbike)
2. EV Chargers
3. Vending Machine
4. Lifting equipment



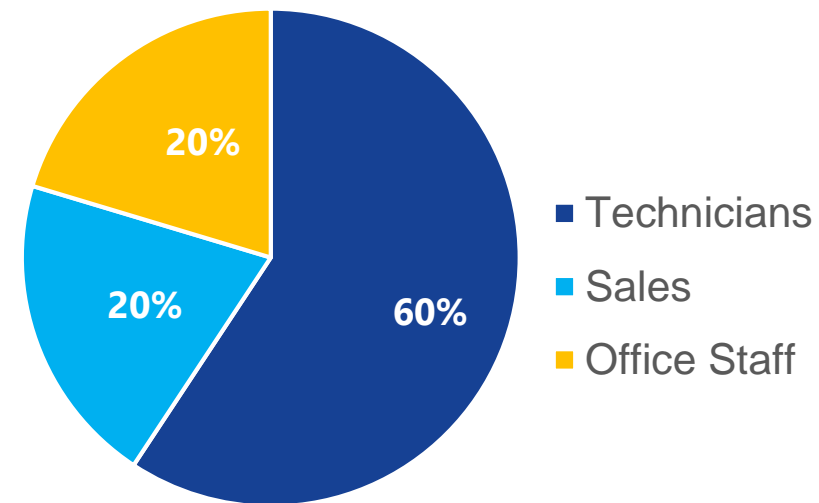
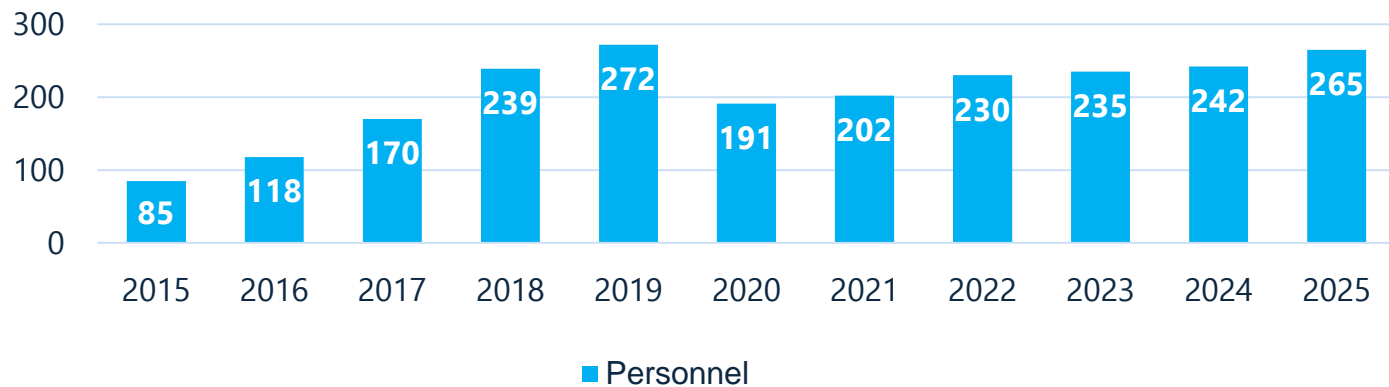
 Automotive & Components	 Plastic /Metal /Ceramic
 <b>FMCG</b> / Consumer /Chemical /Pharma /Medical	 Textile /Footwear
 <b>3C</b> Computer Communication, Consumer Electronics	 General Industries
 School	 Ecommerce
 Building	 Tourist area
 Home	 Hospital

- University, College
- Vocational school
- High school

## Revenue (Million USD)

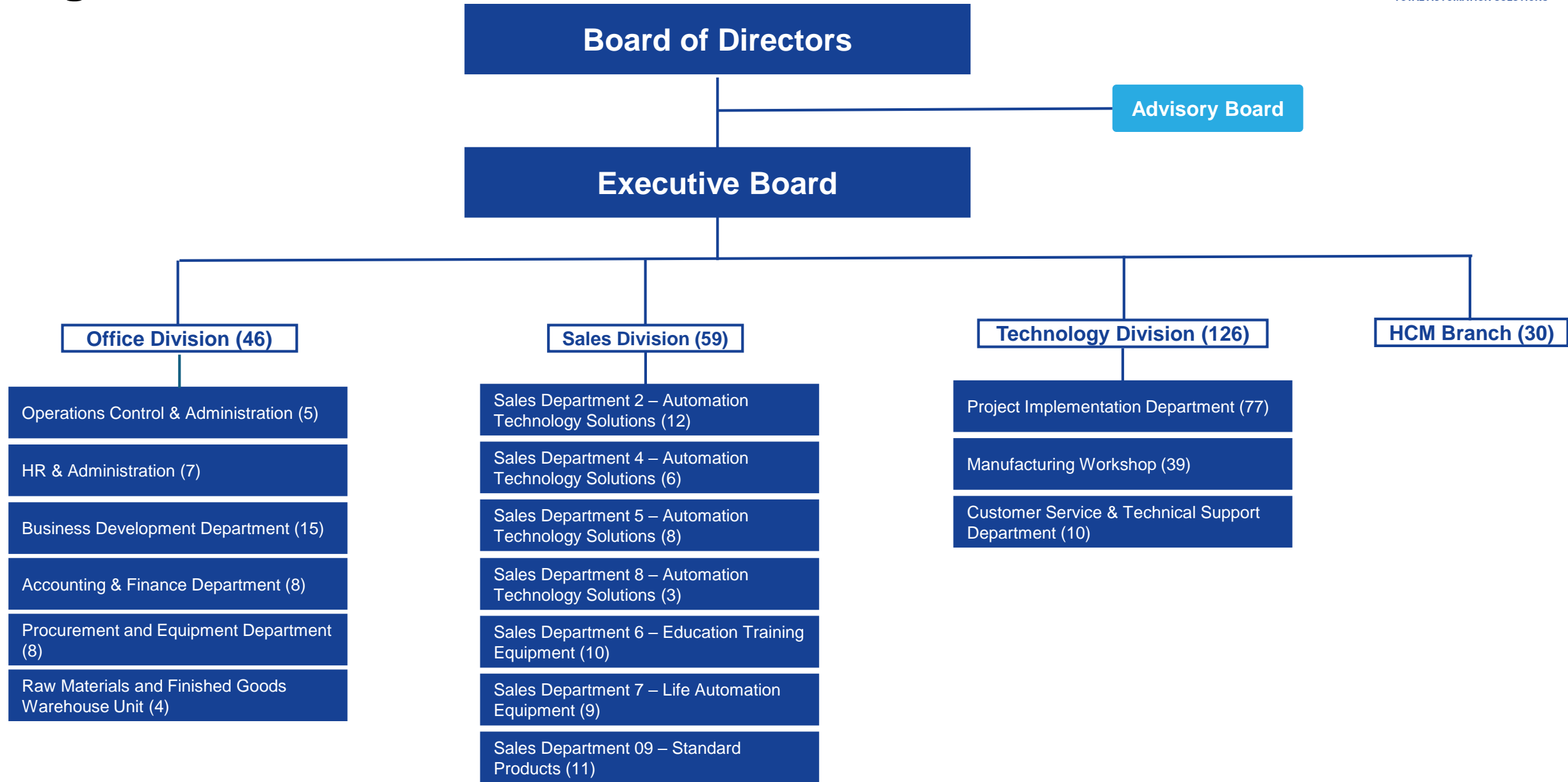


## Personnel










# Organizational Structure



# Engineering Resources & Capabilities

 **140+**

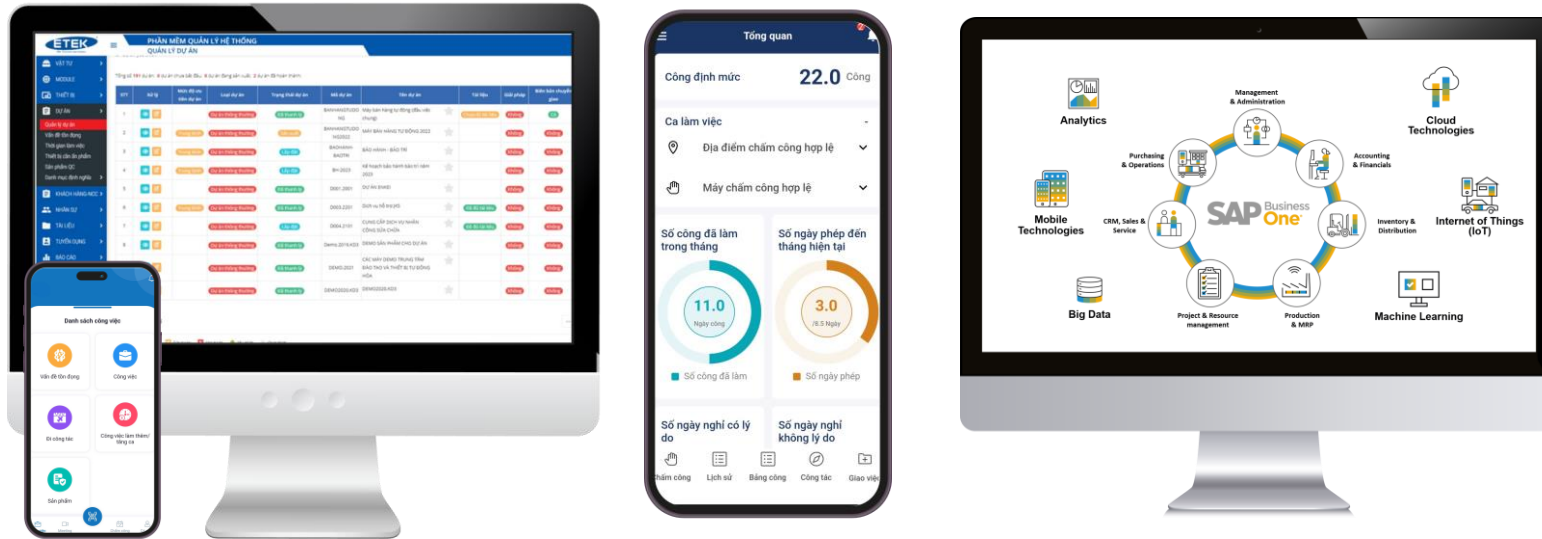
- Mechanical Design Engineer → 32 
- Electrical Design engineer → 41 
- Installation → 41 
- Services → 11 
- Project Manager → 12 

## 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



# Systems & Processes

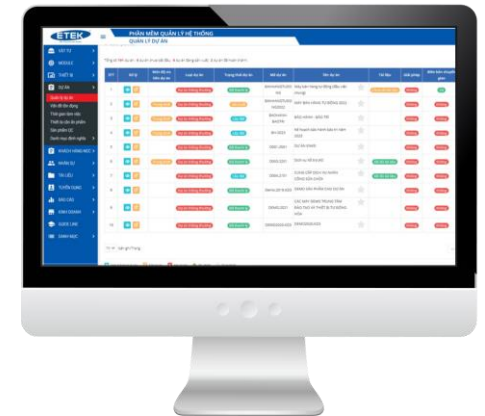


Project  
Management



ETEK  
Operational  
System

Engineering  
management



Knowledge  
management

Skill

Process

Products

## CERTIFICATE OF REGISTRATION

Certificate No. 690637

The Quality Management Systems of

**ETEK AUTOMATION SOLUTIONS  
JOINT STOCK COMPANY**

No. 189 Phan Trung Tue Road, Thanh Lien Commune, Thanh Tri District,  
Hanoi City, Vietnam

has been audited and found to conform to

**ISO 9001:2015**

for the following activities

**Manufacture, Trade and Provision of  
Technical Advices of Electric and  
Automation Equipment**

Date of Issue: 05 July 2022 Date of Expiry: 05 June 2025 Initial Certification: 12 July 2013

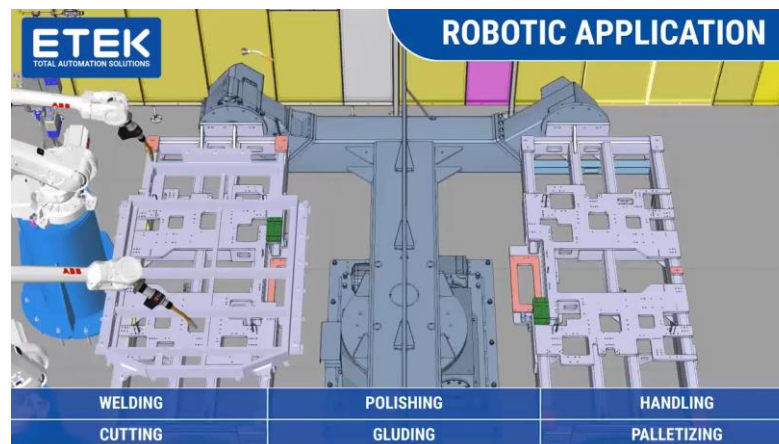
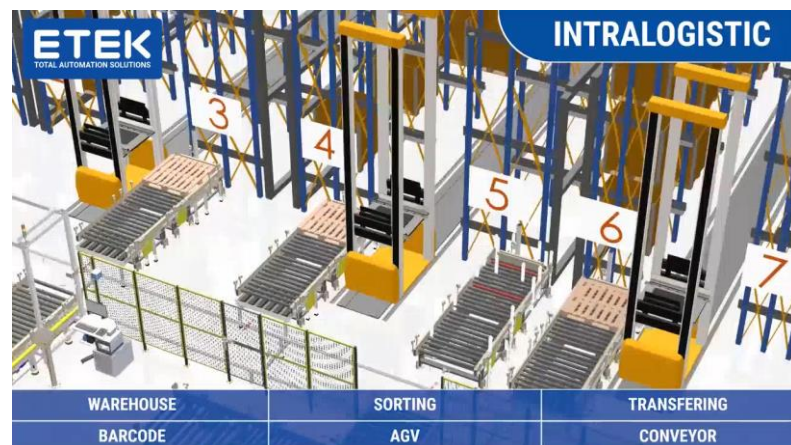
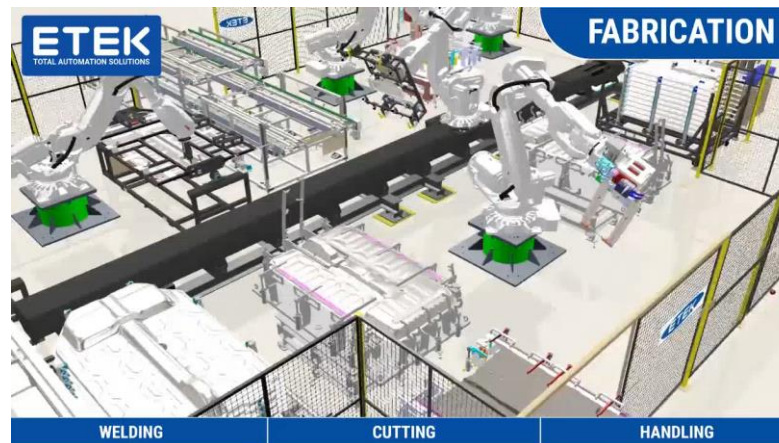
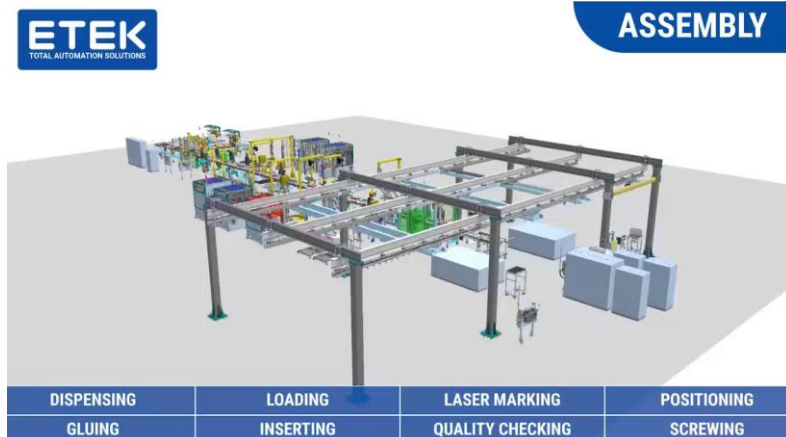
Guardian Independent Certification Ltd

Registered Office: 272-274 St Albans Road, London EC2A 4EJ, UK

Accredited by Member of the UK NCA

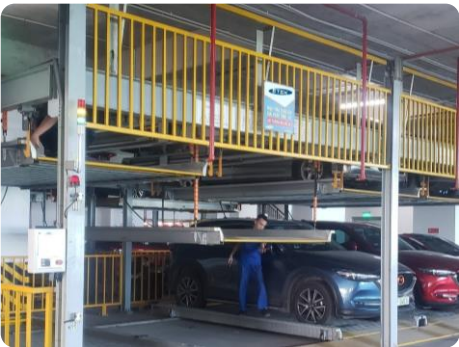
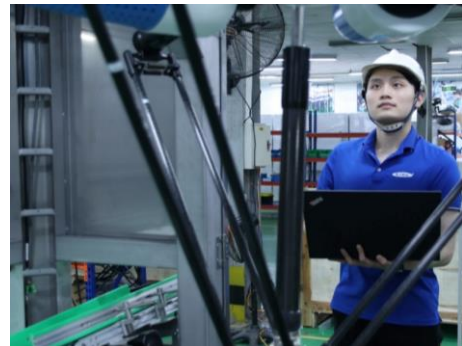
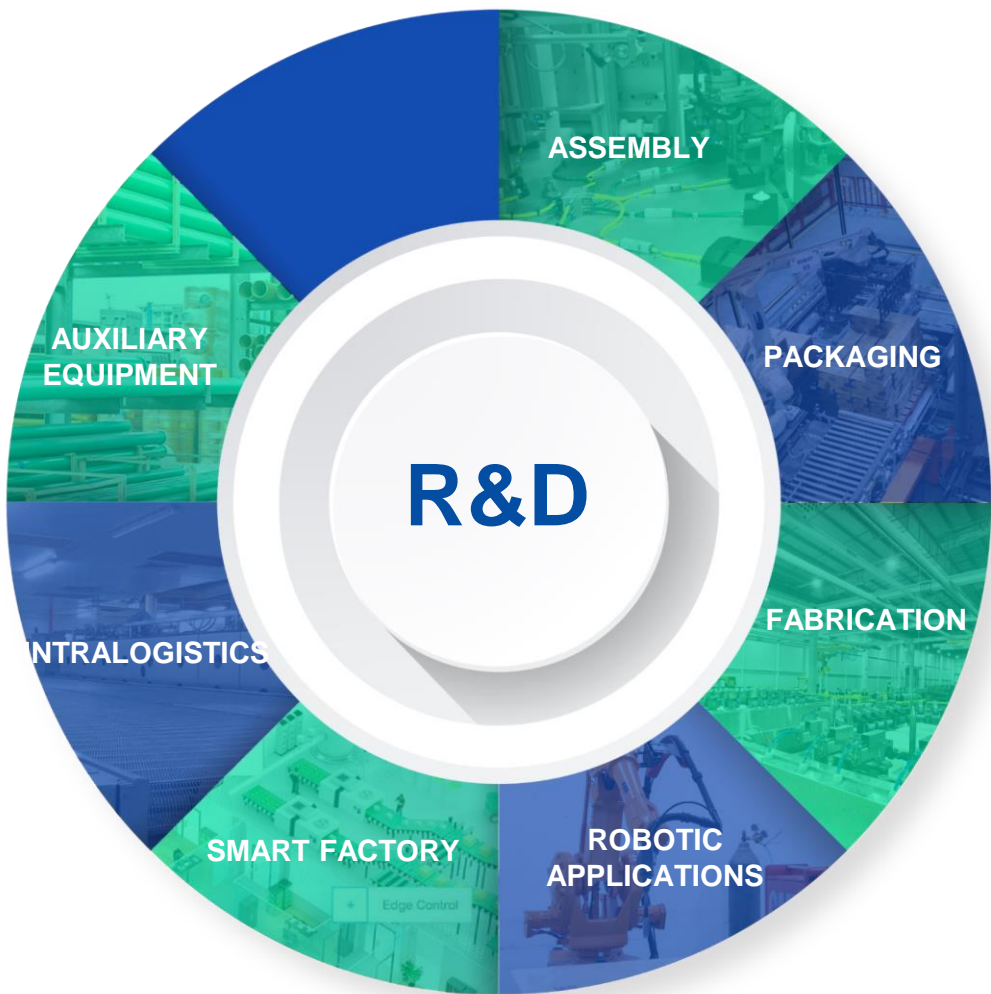
IAF UKAS

# 3D Simulation Tools





# Training and Application Development Center





# Partners

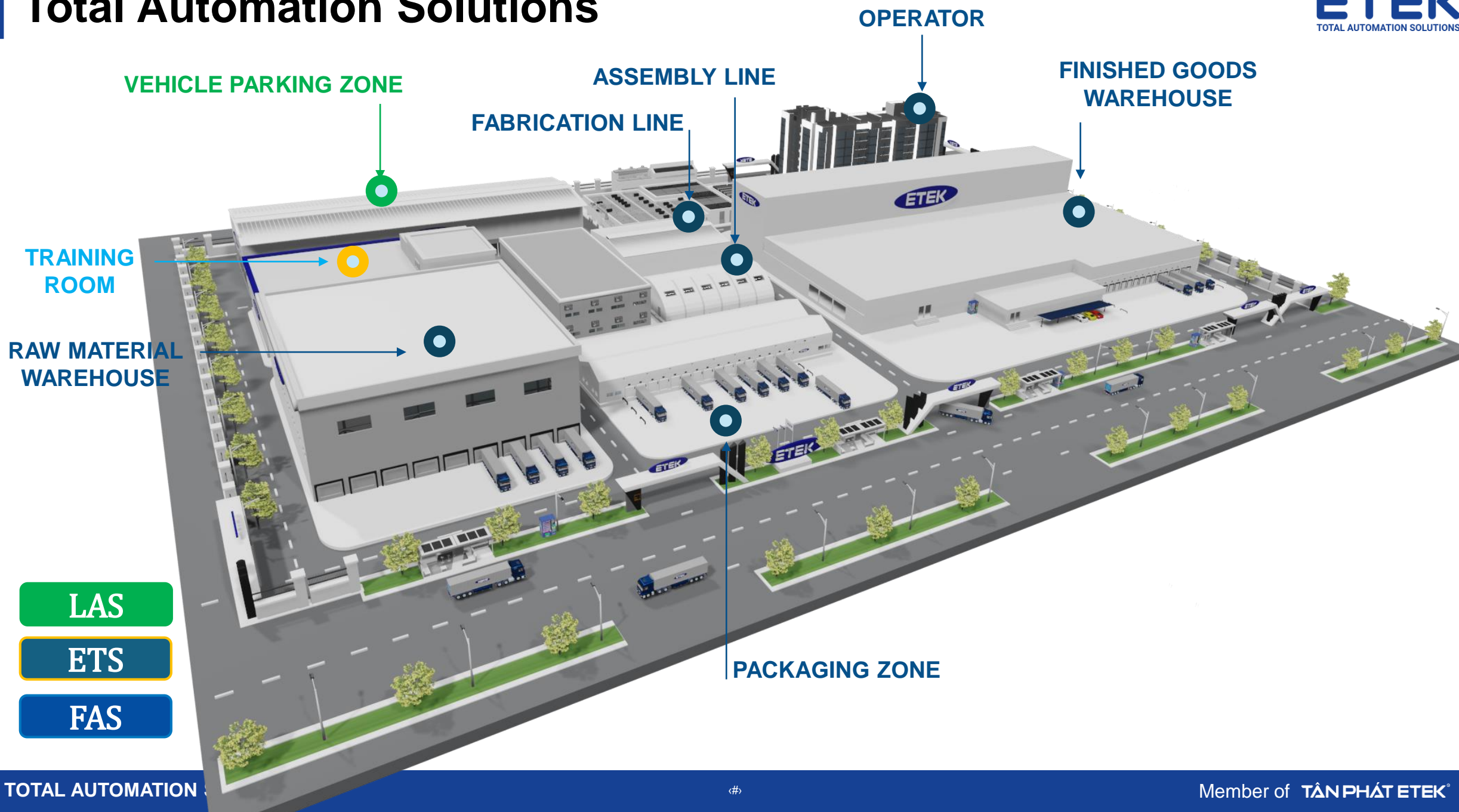




# COMPREHENSIVE AUTOMATION SOLUTIONS FOR INDUSTRY



# Total Automation Solutions







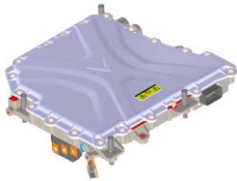
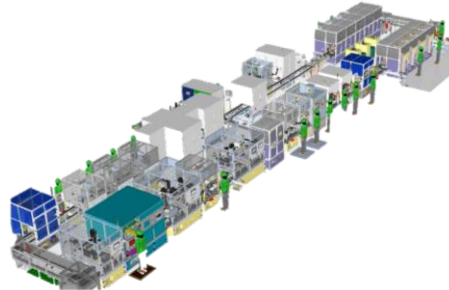

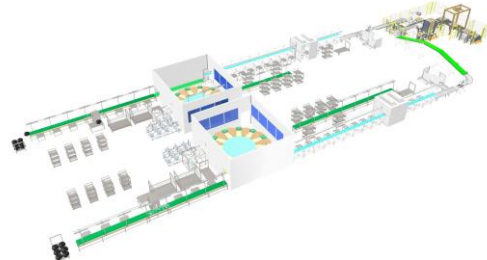
# Assembly

## 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	<ul style="list-style-type: none"> <li>Traceability</li> <li>product management</li> <li>PCB checking,</li> <li>Aging</li> <li>Function test, packing</li> </ul>		<ol style="list-style-type: none"> <li>1. Gluing</li> <li>2. Inserting</li> <li>3. Welding / Soldering</li> <li>4. Auto screw fastening</li> <li>5. Auto riveting</li> <li>6. Pick and place</li> </ol>
 Medium	<ul style="list-style-type: none"> <li>Precision Handling &amp; Positioning</li> <li>Assembly &amp; Joining</li> <li>Measurement &amp; Testing</li> <li>Machine Vision</li> <li>Part Traceability &amp; Quality Data Management</li> <li>Flexible Manufacturing</li> <li>Large Interlinked System Software</li> <li>Enterprise Manufacturing Systems Integration</li> </ul>		<ol style="list-style-type: none"> <li>1. Dispensing</li> <li>2. Loading</li> <li>3. Laser Marking</li> <li>4. Positioning</li> <li>5. Press-Fitting</li> <li>6. Gluing</li> <li>7. Assembly &amp; Coating</li> <li>8. Vision</li> <li>9. Mounting</li> </ol>
 Large			<ol style="list-style-type: none"> <li>1. Sorting</li> <li>2. Insert</li> <li>3. Leak test</li> <li>4. Vision check</li> <li>5. Cleaning</li> <li>6. Metal Plate Top insert</li> <li>7. Screwing</li> </ol>

# Fabrication



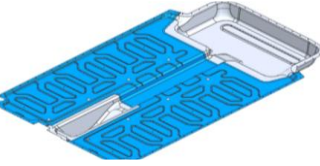



## Overview

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	<ul style="list-style-type: none"> <li>• Die casting</li> <li>• CNC Machining</li> <li>• Rim spray cleaning</li> <li>• Powder coating</li> <li>• Wet panting</li> </ul>		<ol style="list-style-type: none"> <li>1. Melting &amp; Furnaces</li> <li>2. Die casting</li> <li>3. X-ray</li> <li>4. Shot Blasting</li> <li>5. CNC Machining</li> <li>6. Cleaning</li> <li>7. Panting</li> </ol>
 Aluminum sheet	<ul style="list-style-type: none"> <li>• Spot welding</li> <li>• CNC</li> <li>• Gluing</li> <li>• Leak test</li> </ul>		<ol style="list-style-type: none"> <li>1. Gluing 1st</li> <li>2. Spot welding</li> <li>3. Gluing 2rd</li> <li>4. Glue curing</li> <li>5. Leak test</li> <li>6. Dimension check</li> </ol>
 Metal	<ul style="list-style-type: none"> <li>• MIG welding</li> <li>• Fiction welding</li> <li>• Ultrasonic cleaning</li> <li>• Riveting</li> <li>• CNC machining</li> <li>• Leak test</li> </ul>		<ol style="list-style-type: none"> <li>1. Cleaning</li> <li>2. TIG welding</li> <li>3. CNC Machining</li> <li>4. Friction welding</li> <li>5. Riveting</li> <li>6. Cleaning</li> <li>7. Leak test</li> </ol>

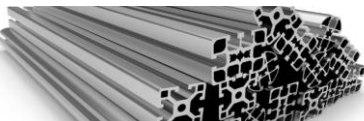
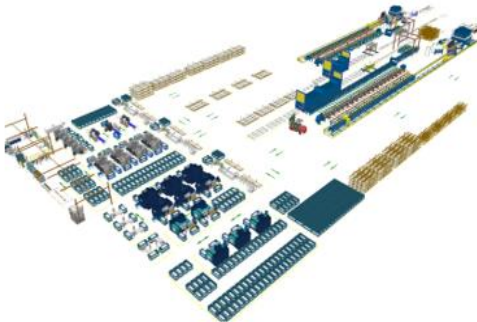

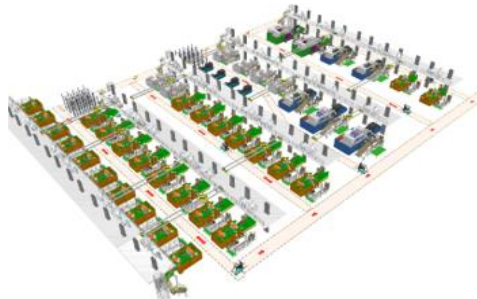
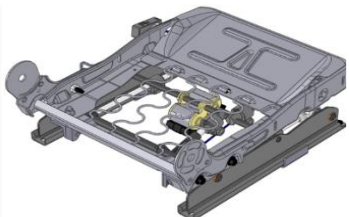
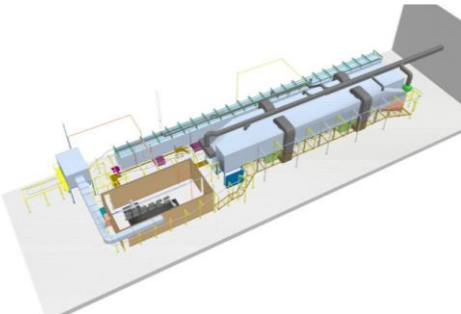
## Overview

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
 <p>Shaped aluminum</p>	<ul style="list-style-type: none"> <li>• Aluminum extrusion</li> <li>• Saw Cutting</li> <li>• Quenching</li> </ul>		<ol style="list-style-type: none"> <li>1. Log Loading</li> <li>2. Log Furnace</li> <li>3. Hot Sawing</li> <li>4. Extrusion</li> <li>5. Quenching</li> <li>6. Sawing</li> <li>7. Cooling</li> <li>8. Stretcher</li> </ol>
 <p>Plastic</p>	<ul style="list-style-type: none"> <li>• Plastic Injection molding</li> </ul>		<ol style="list-style-type: none"> <li>1. Mix material</li> <li>2. Loading</li> <li>3. Insert trill part</li> <li>4. Injection molding</li> <li>5. Robot auto unload</li> <li>6. Checking</li> <li>7. Packaging</li> </ol>
 <p>Metal panting</p>	<ul style="list-style-type: none"> <li>• Spay surface preparation</li> <li>• Powder coating</li> <li>• Wet painting</li> </ul>		<ol style="list-style-type: none"> <li>1. Loading</li> <li>2. Pretreatment</li> <li>3. Dry off Oven</li> <li>4. Powder Booth</li> <li>5. Curing oven</li> <li>6. Cooling</li> <li>7. Inspection</li> <li>8. Unloading</li> </ol>



# 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



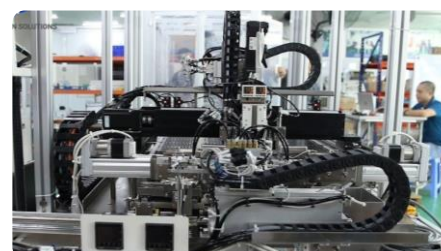
Aluminum Die Casting  
Factory



Automatic welding line



Automatic Painting and  
Coating line



Automatic Plastic Gate  
Cutting Machine



Exporting The Paints Line  
to India



# Packaging solution




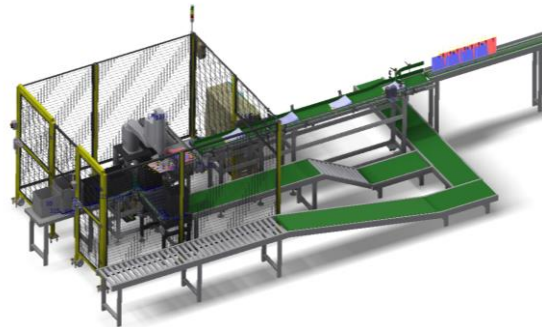
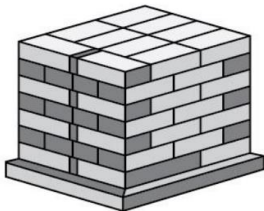
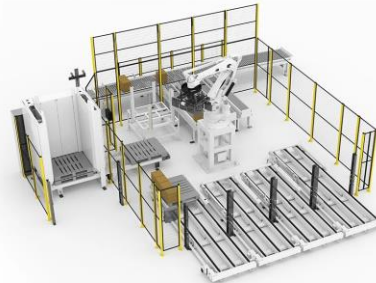
## Overview

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
 <p>Primary packing</p>	<ul style="list-style-type: none"> <li>• Computer vision</li> <li>• Robot pick and place</li> <li>• Data acquisition</li> <li>• WISE-PaaS</li> </ul>		<ol style="list-style-type: none"> <li>1. Bottle feeding</li> <li>2. Filling</li> <li>3. Wrapping</li> <li>4. Sorting</li> <li>5. Data printing</li> <li>6. Inspection</li> </ol>
 <p>Secondary packing</p>	<ul style="list-style-type: none"> <li>• Robotic pick-and-place system</li> <li>• Flexible conveyor</li> <li>• Barcode/QR Code</li> </ul>		<ol style="list-style-type: none"> <li>1. Case erecting</li> <li>2. Case packing</li> <li>3. Case sealing</li> <li>4. Label printing</li> <li>5. Weight checking</li> </ol>
 <p>Tertiary packing</p>	<ul style="list-style-type: none"> <li>• Robot palletizer</li> <li>• Servo driven</li> </ul>		<ol style="list-style-type: none"> <li>1. Palletizing</li> <li>2. Stretch wrapping</li> <li>3. Top covering</li> <li>4. Corner inserting</li> <li>5. Pallet labeling</li> </ol>



# Reference Projects - FAS

## Primary Packaging



Robotic Bottle Unscrambler



Tea Bags Packaging

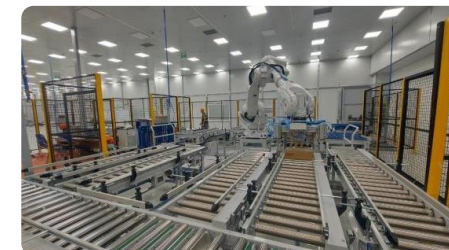


Robotic Case Packer  
Machine

## Secondary Packaging



Gypsum Board Packing  
Line

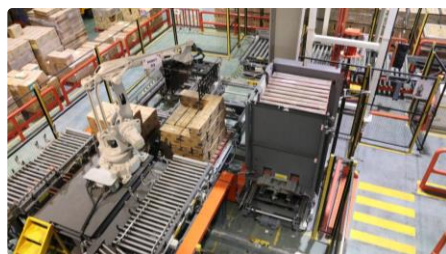


Battery Cell Packaging Line

## 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	Key Technology	Layout	Key Process
Production Line	<ul style="list-style-type: none"> <li>Smart Conveyor.</li> <li>AGV: Slam, Qr Code</li> <li>AMR</li> </ul>		<ol style="list-style-type: none"> <li>Handelling</li> <li>Bin-picking</li> <li>Order picking</li> <li>Pick &amp; place</li> <li>Pallet storage</li> <li>Pallet transport</li> </ol>
Raw material	<ul style="list-style-type: none"> <li>AS/RS</li> <li>Vertical</li> <li>Stacker Cranes</li> <li>Software &amp; Control Solutions</li> <li>Totes, Bins &amp; Tray Storage</li> <li>Smart Conveyor.</li> <li>AGV: Slam, Qr Code</li> <li>AMR</li> </ul>		<ol style="list-style-type: none"> <li>Bin-picking</li> <li>Container emptying</li> <li>De-stacking</li> <li>Order picking</li> <li>Pick &amp; place</li> <li>Stacking</li> <li>Truck loading &amp; unloading</li> <li>Other handling &amp; picking</li> <li>Pallet storage</li> <li>Pallet transport</li> </ol>

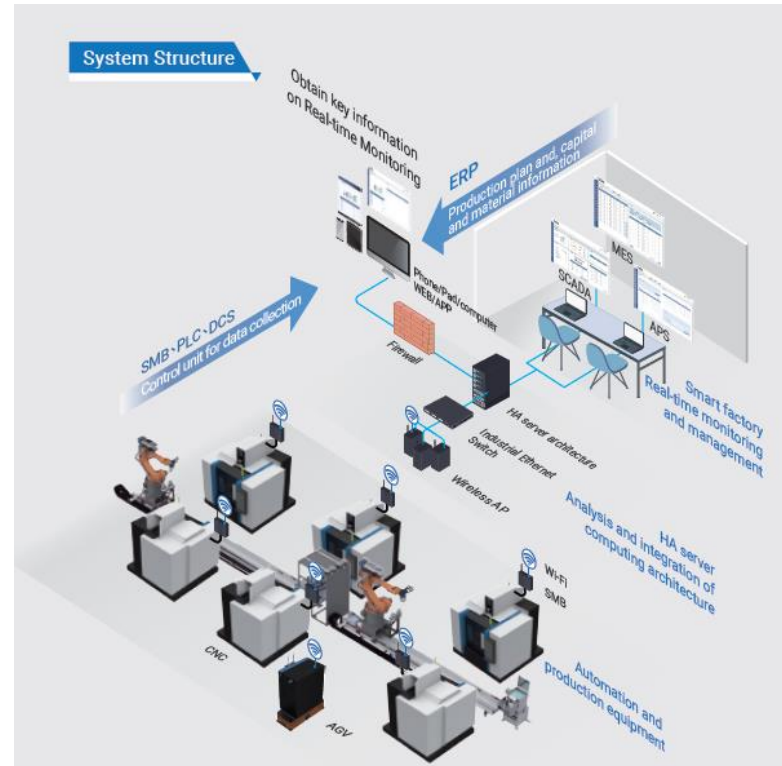
## Overview

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**

**VINFAST**

**VinES**

**FMCG**

**And more**

**Unilever**





# 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

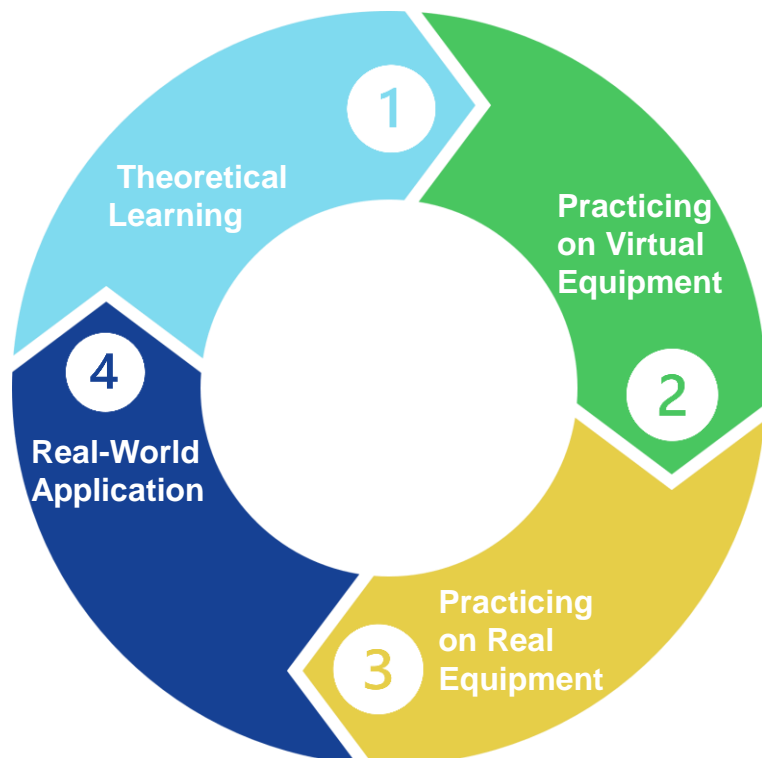
6 Pilot Production

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

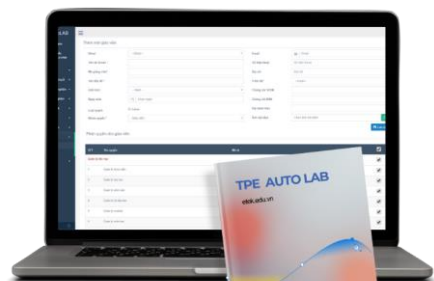
ETEK provides integrated training models equipped with components from globally recognized brands, designed for both research and practical application. These systems enable students to explore key concepts such as component connectivity, equipment safety, and control logic using real industrial-grade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

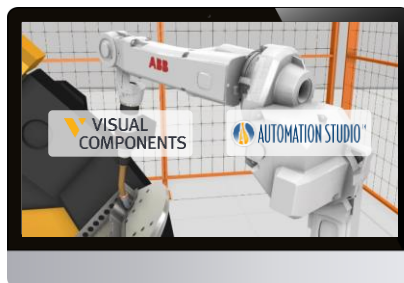
1

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

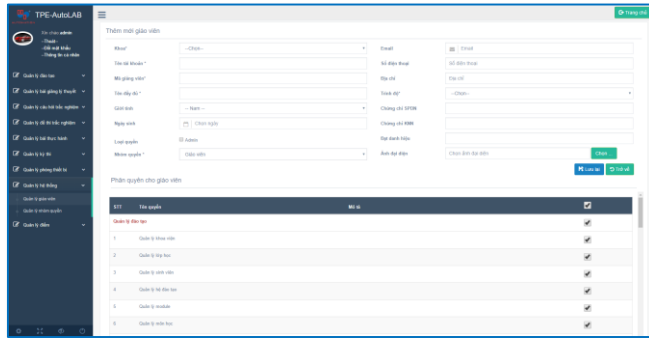


4

Real-World Application

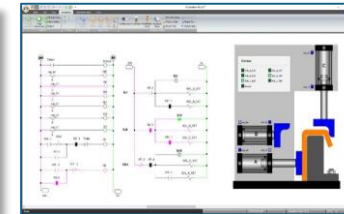
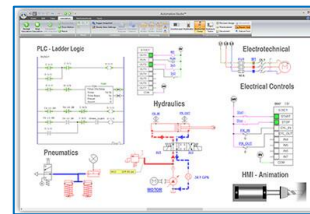
## LEVEL I Theoretical Research

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 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 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.

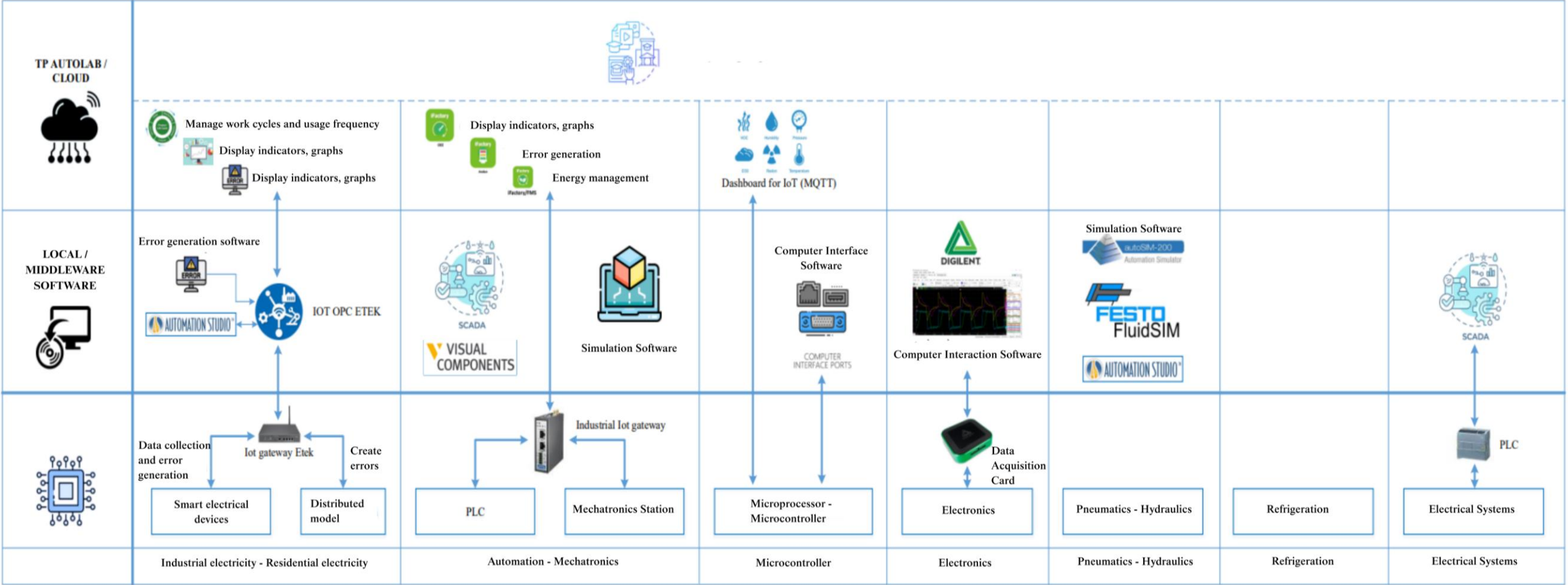


## LEVEL IV Applied Skills for Real-World Environments

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



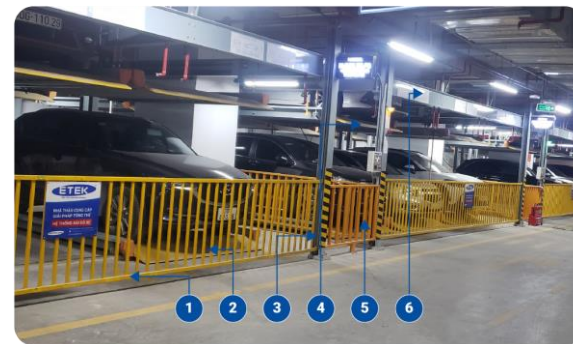
Automatic parking Robocar



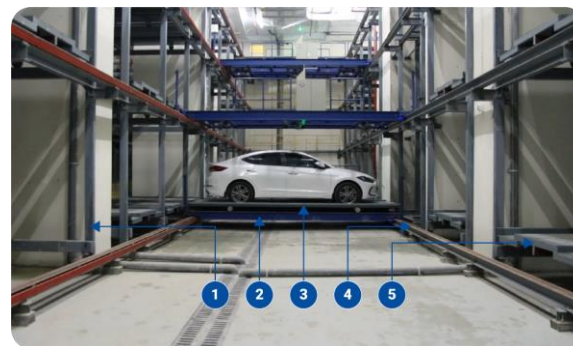
Automatic parking Robotic

### Key Technology

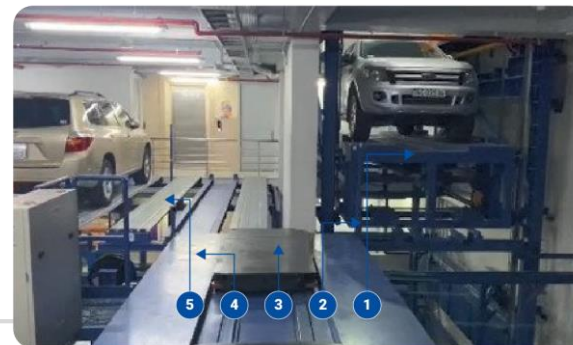
### Layout



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



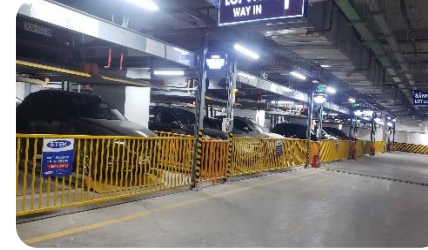
Puzzle technology parking system



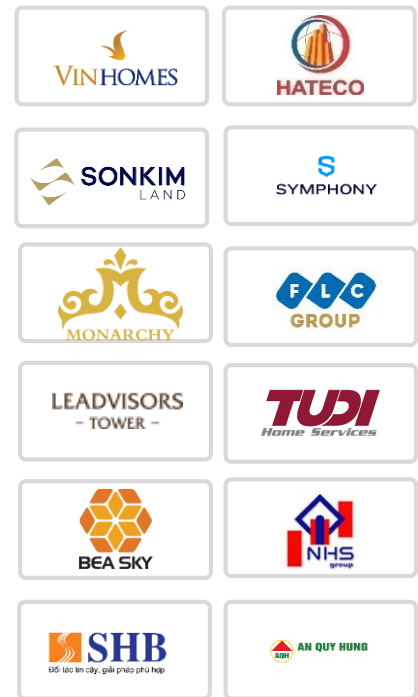
Puzzle technology parking system



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



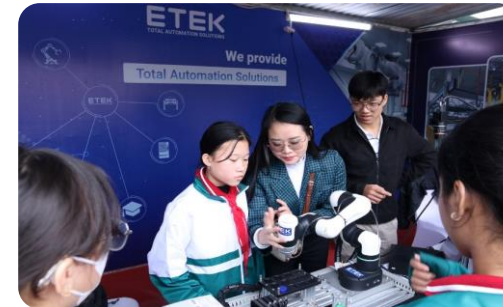


# Internal Activities





# Community Activities



*Thank  
you*

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