



YUNYI SALES DEPARTMENT



# The Most Competitive Chinese Auto-electronics Enterprise

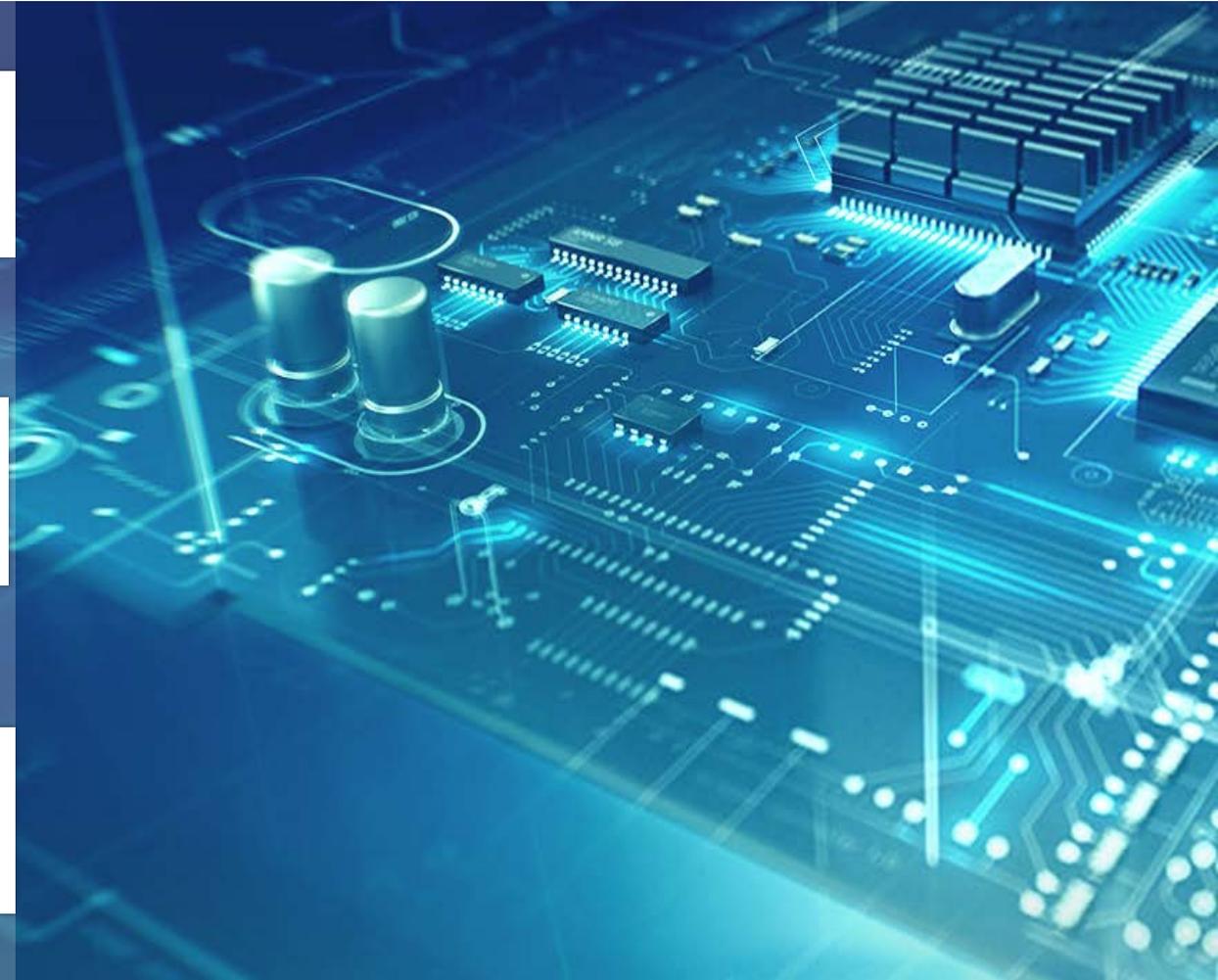
**Jiangsu Yunyi Electric Co., Ltd**

( Stock Code: 300304 )

**01 | Company Profile**

**02 | Core Competence**

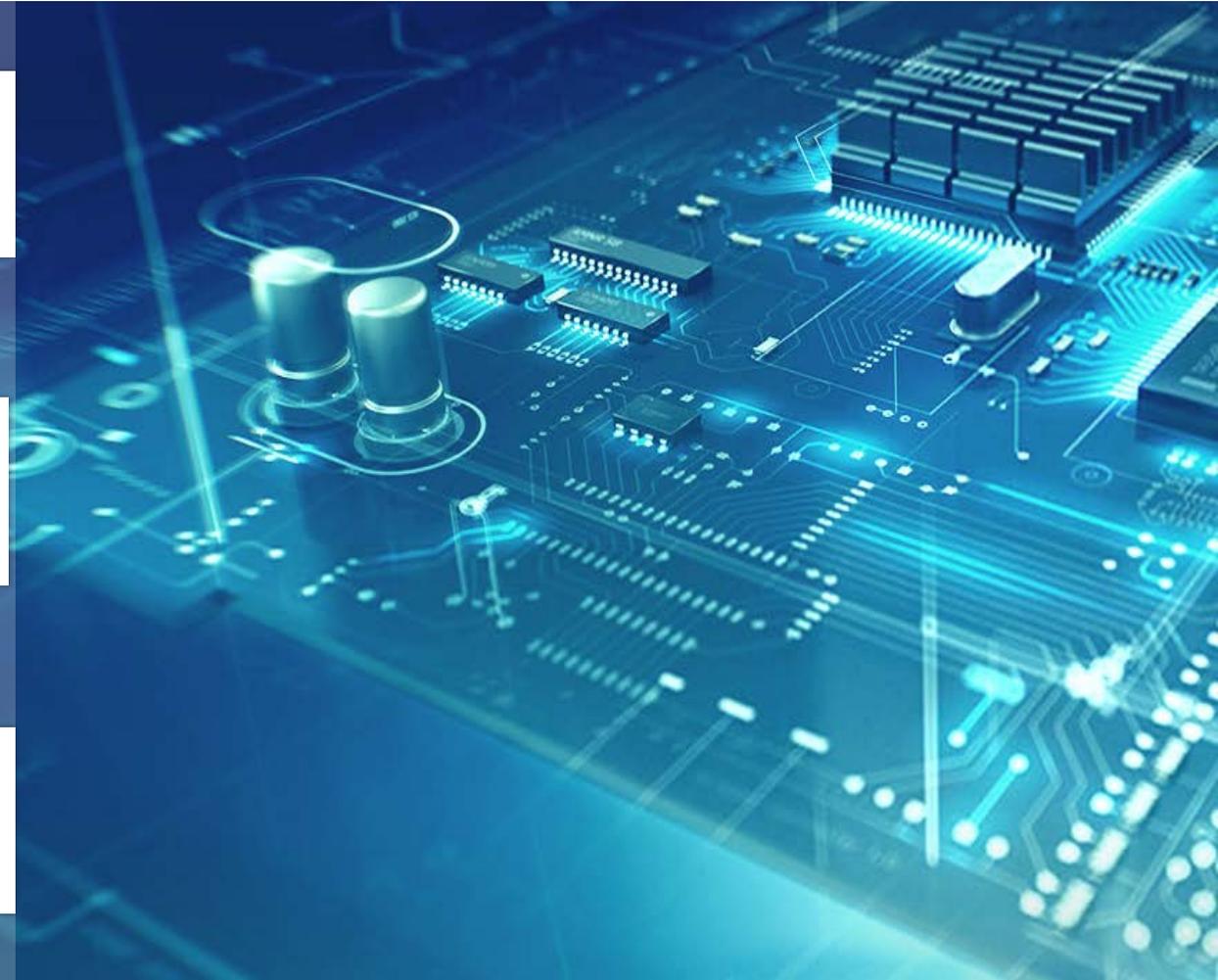
**03 | Product & Market**



**01 | Company Profile**

**02 | Core Competence**

**03 | Product & Market**



## Corporate Culture

### ➤ Vision

Technology makes for better travel.

### ➤ Mission

To become a leader in the field of intelligent control.

### ➤ Values

Assist customers to be successful.

Focus on value-creation.

Open and honest.

Strivers are highly praised.

## Jiangsu Yunyi Electric Co., Ltd (Stock Code: 300304)

A high-tech corporation specialized in R&D, manufacture and marketing of automotive electronic parts.



**22  
YEARS**

**Industry  
Experience**



**1.2  
BILLION**

**Annual  
Revenue**



**6  
BRANCHES**

**Clear  
Specilization**



**1600  
PEOPLE**

**Personnel**



**3  
CENTERS**

**R&D  
Laboratories**



**498  
PATENT**

**Strong  
Intelligence**

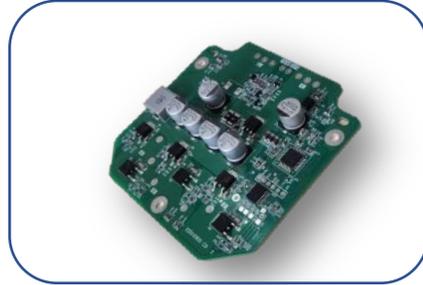
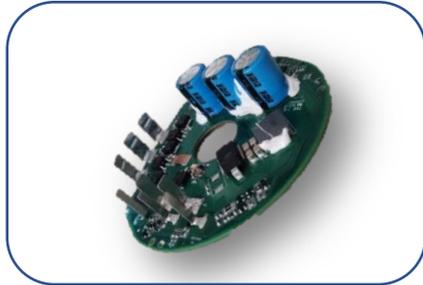


**120  
COUNTRIES**

**Worldwide  
Service**

# 1. Company Profile

## ➤ Jiangsu Yunyi Electric Co., Ltd (Motor Controller)



## ➤ Branches (Core Electronic Auto-parts)

### Vehicle Power Controller

No.1 in China

No. 3 in The World



### Vehicle Wiper Blade System

No. 3 in China

No. 3 in China

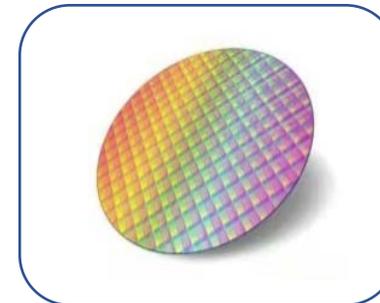


### TPMS

No. 3 in China



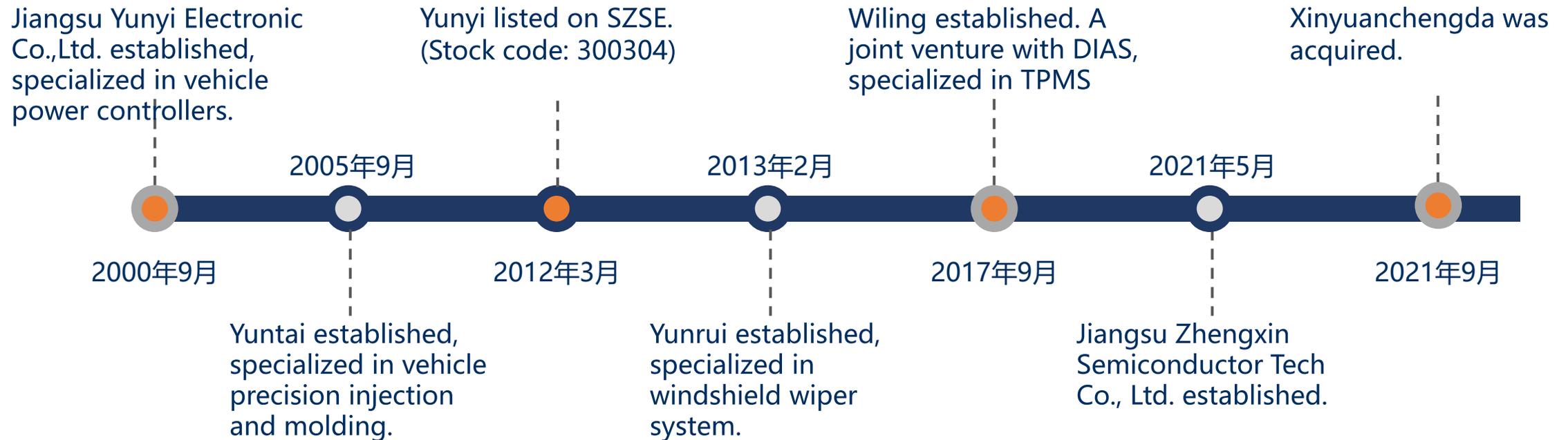
### Semiconductor



### NOx Sensor



## ➤ Milestone



**Yunyi Electronic Co.,Ltd. has always been committed to the R&D, manufacturing and marketing of automotive brushless motor controller.**

# 1. Company Profile



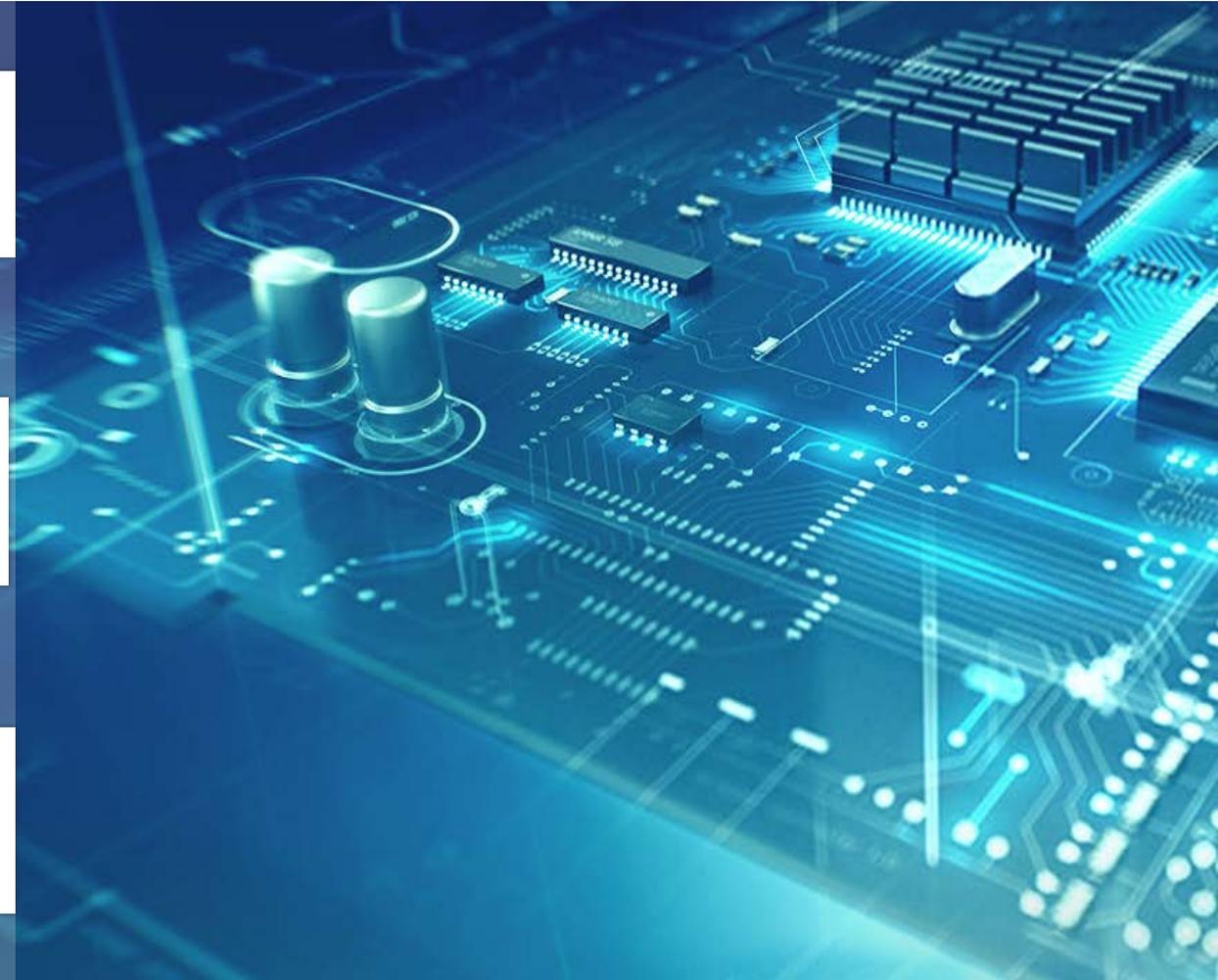
## ➤ Quality Certification: IATF16949 ISO14001 ISO45001



**01 | Company Profile**

**02 | Core Competence**

**03 | Product & Market**



# 2. Core Competence

➤ High vertical integration: from base chemicals to finished products in single one factory.

### Independent R&D and Design

- ◆ Software architecture and program
- ◆ Ceramic chip
- ◆ Hardware circuit and layout
- ◆ Product structure

### Full Automatic Production

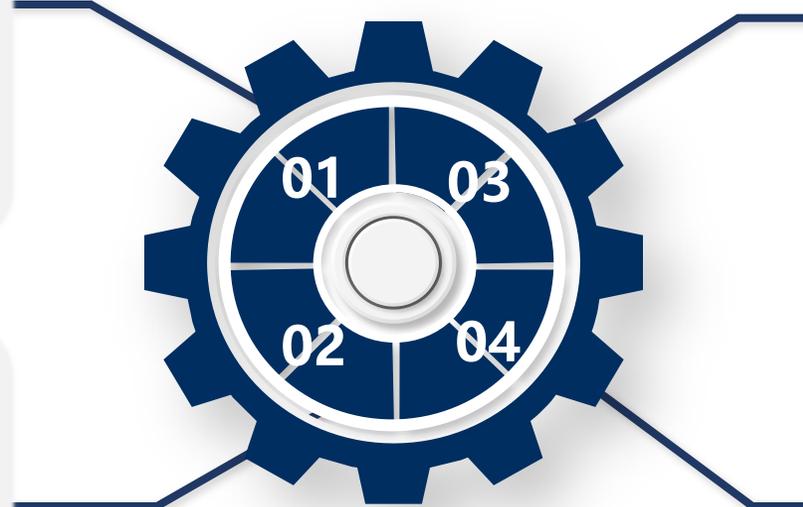
- ◆ Full automatic SMT Production
- ◆ NOx sensor assembly
- ◆ Calibration and test

### Vertical Integration of Production Line

- ◆ Semiconductor Packaging
- ◆ PCBA Production
- ◆ Self-production for mould and structural components

### Total Quality Management

- ◆ IATF16949
- ◆ ISO14001
- ◆ OHSAS18001
- ◆ VDA6.3 system
- ◆ ERP、 PLM、 WMS、 MES、 OA



## ➤ R&D Team



**Dr. Lin**

- Doctor degree in Kyushu University
- Member of Solid State Ionics Expert Committee
- 4 National Major Project and Science and Technology Progress Award
- 25 authorized invention patents and 10 PCT patents
- Draft 9 industry standards



**Dr. Meng**

**Technical Director**

- Doctor Degree
- IEEE Premium Member
- Over 10-year R&D experience in vehicle motor and controller
- More than 10 patents



**Ms. Bai**

**Deputy Technical Director**

- Doctor Degree
- Over 10-year R&D experience in power supply, electric controller and EMC
- More than 10 SCI/EI journal papers
- More than 10 patents



**Mr. Yu**

**Chief Engineer**

- Master Degree
- Over 10-year R&D experience in vehicle software of electric controller
- More than 10 patents
- More than 10 motor controller software copyright



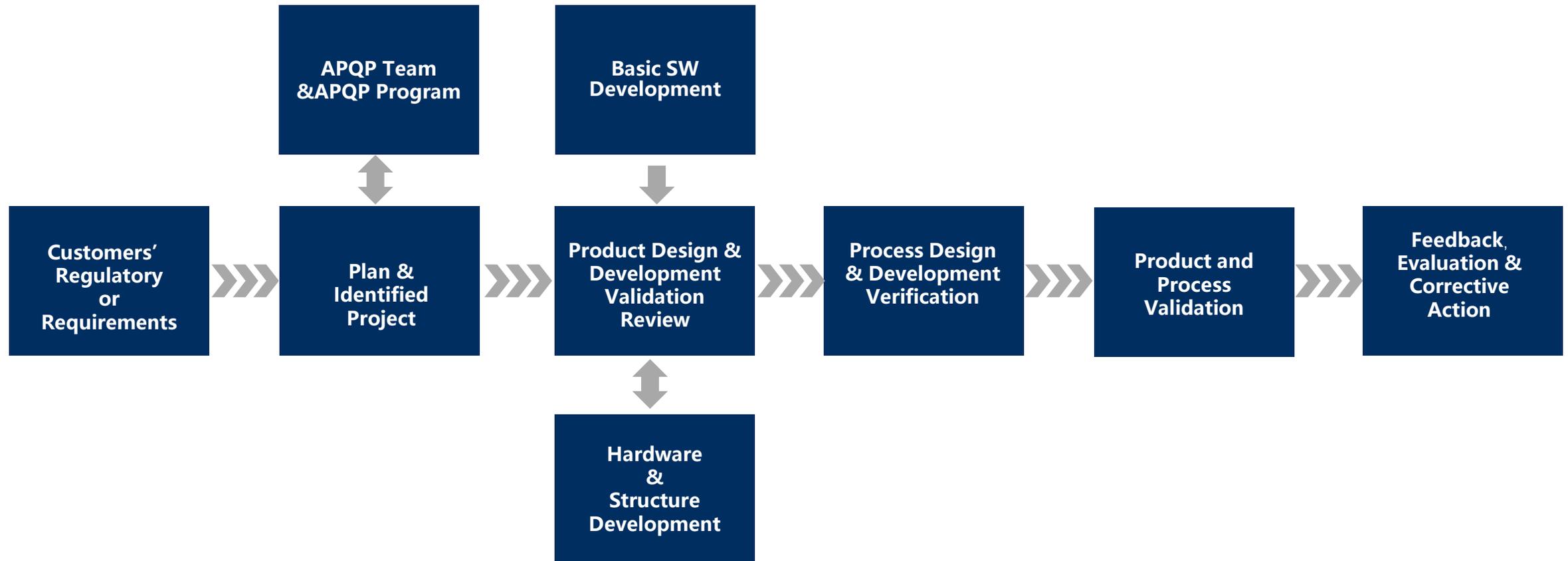
**Mr. Si**

**Chief Engineer**

- Master Degree
- 7-year R&D experience in motor control algorithm
- 2 EI journal papers
- 5 patents and more than 10 software copyrights

## 2. Core Competence

➤ Design and develop products in strict accordance with APQP process



# 2. Core Competence



## ➤ R & D Validation Equipment-National ISO17025 Certified Lab

TC Tester

Salt Spray Tester

Thermal Shock Tester

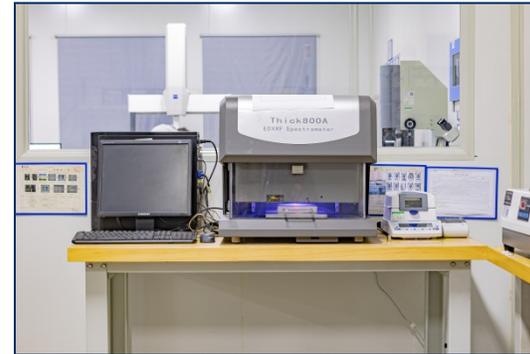
Vibration Tester

X-Ray

2000x Microscope

7637-5A Tester

High Temperature and Humidity Test chamber



# 2. Core Competence



## ➤ Smart Workshop:

Area: 26000m<sup>2</sup>

Investment: RMB 200 million



## ➤ Advanced Production Process and Equipment



### Vacuum Reflow Soldering

- At the peak temperature of reflow soldering, the product enters a closed cavity, and vacuum welding is performed to reduce the voids in the soldering, and the 20% bubble rate is reduced to less than 3%, which reduces the thermal resistance of the product and improves the reliability and lifetime of the product.



### Wire Machine

- Low friction wire path improves welding arc consistency at high speed
- Fine Wire Paving Flux Wire Path Improves Consistency of Welding Arc at High Speeds
- Fine wire auxiliary arc reduces wire tension



### Line Spray

- Multi-track spraying can be completed by spot spraying, linear spraying and curve spraying
- The spray edge has good sharpness, good uniformity, and spray shadow effects can be eliminated.
- The transmission and control system with high speed, high reliability and high stability, X, Y, Z direction movement adopts the linear stem group made of high precision ball screw and linear rolling guide.
- The precision nozzle is stable and has good flow regulation, which can achieve reliable and uniform spraying.

## ➤ Precision Production Equipment



**Solder Paste Printer**

Printing Accuracy: 20um

Printing Thickness: 0.2mm—  
3.8mm



**SMT Equipment**

SMD Accuracy:  $\pm 0.025$  mm

Minimum Size: 0.3X0.15mm

Maximum Size: 150X25mm,

Height: 30mm



**AOI Equipment**

4MPIX Camera

Pixel Resolution: 15um

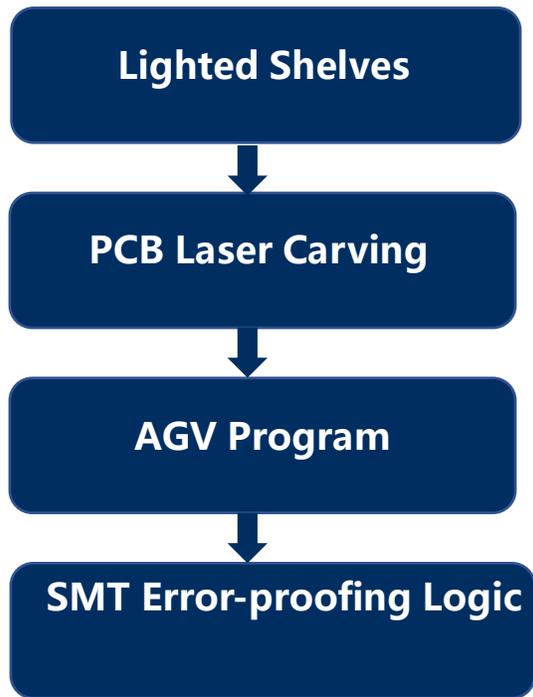
SPC Analysis

# 2. Core Competence

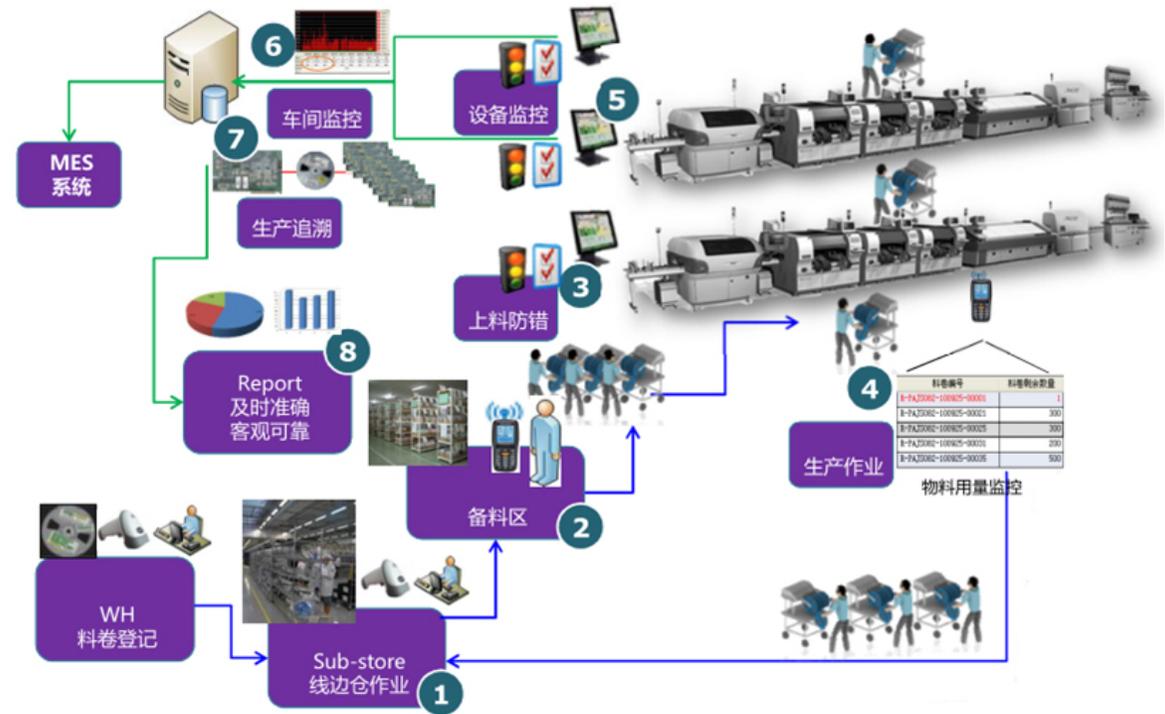


➤ **Production Capacity—Industry 4.0: Anti-error-material, Anti-sluggish, Traceability, Equipment management**

## HW System



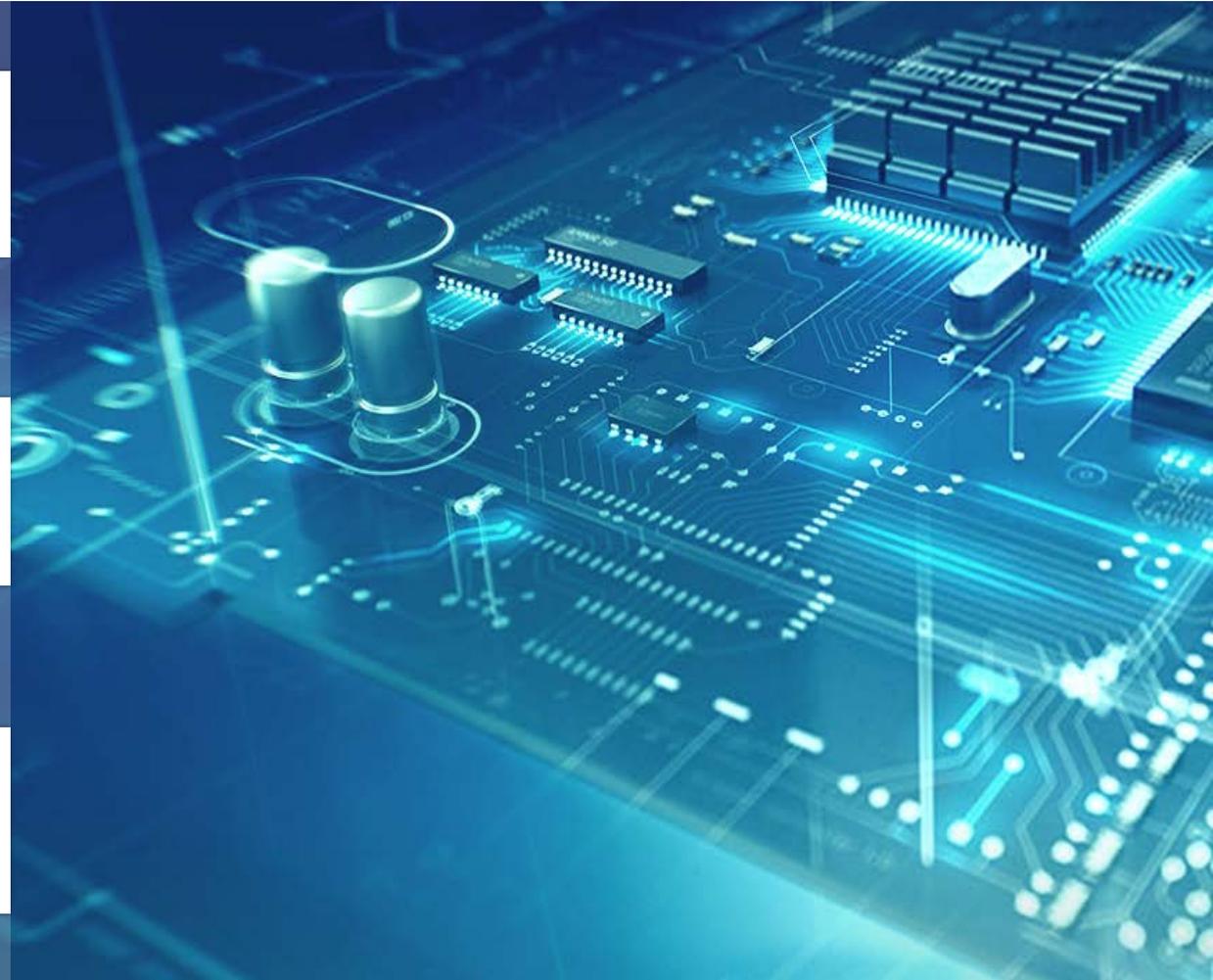
## Management System



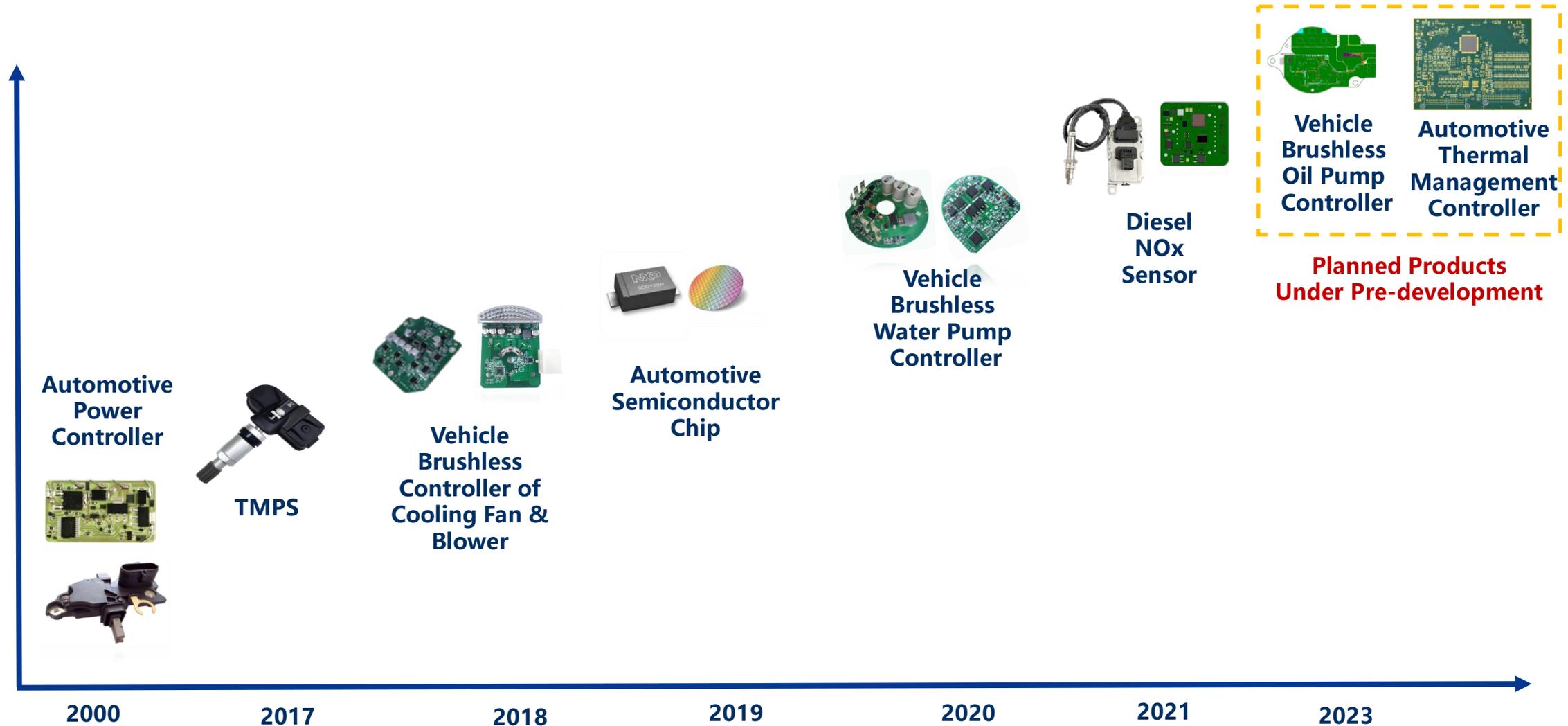
**01 | Company Profile**

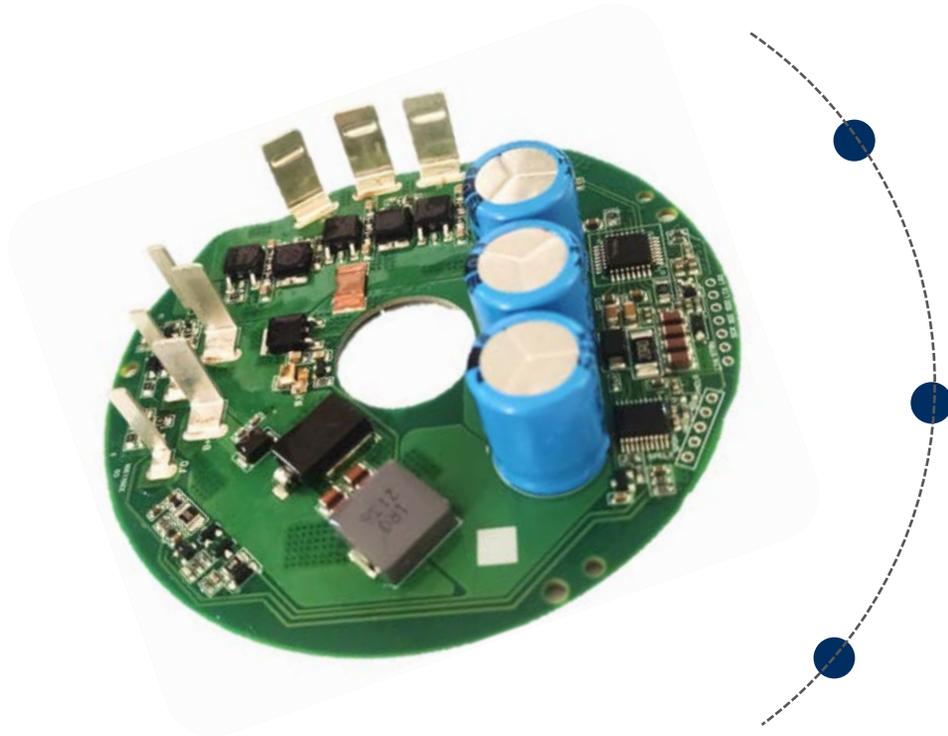
**02 | Core Competence**

**03 | Product & Market**



## ➤ Milestones of Yunyi Products





## ✓ Product Profile

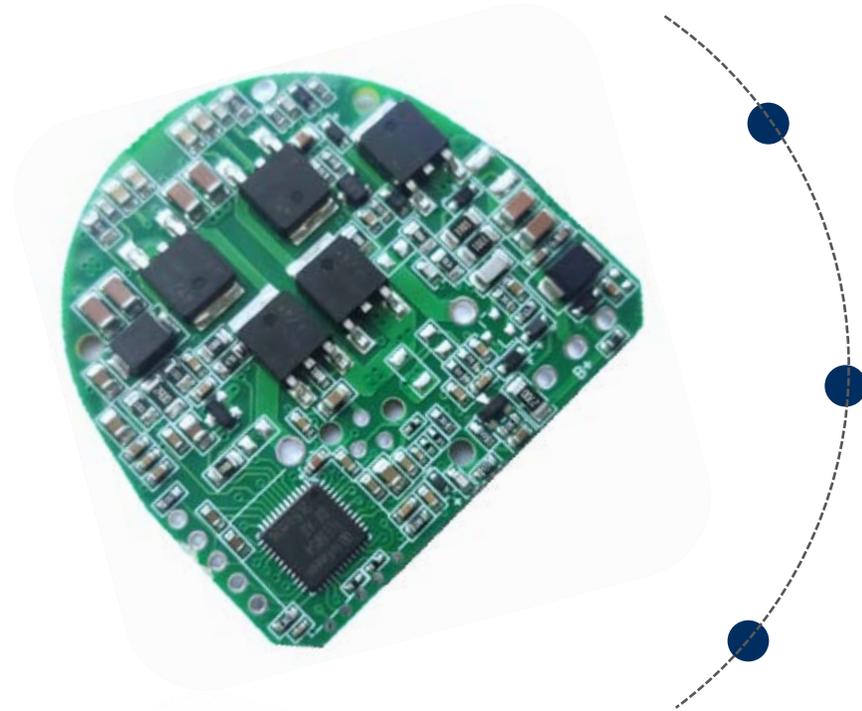
- Cooling Fan Controller
- 24V System
- Engineering Vehicle
- 300W~500W
- Inductive FOC



## ✓ Function Description

- Fault Feedback
- Fan-starting
- Energy-low-loss Model
- Over-temperature Protection
- Over/under-voltage Protection
- Rotation-Clogging Protection
- Overcurrent Protection
- Reverse Connection Protection
- .....





## ✓ Product Profile

- Cooling Water Pump Controller
- 12V System
- Passenger Car
- 20W~50W
- Sensitive Square Wave



## ✓ Function Description

- Fault Feedback
- Energy-low-loss Model
- Over-temperature Protection
- Over/under-voltage Protection
- Rotation-Clogging Protection
- Overcurrent Protection
- Reverse Connection Protection
- No-load Protection
- .....



## ✓ Product Profile

- Cooling Water Pump Controller
- 12V System
- Engineering Vehicle
- 200W~400W
- Non-inductive FOC



## ✓ Function Description

- Fault Feedback
- Energy-low-loss Model
- Over-temperature Protection
- Over/under-voltage Protection
- Rotation-Clogging Protection
- Overcurrent Protection
- Reverse Connection Protection
- No-load Protection
- .....



## ✓ Product Profile

- Automotive Blower Controller
- 12V System
- Passenger Car
- 200-300W
- Non-inductive FOC



## ✓ Function Description

- Fault Feedback
- Blower-starting
- Energy-low-loss Model
- Over-temperature Protection
- Over/under-voltage Protection
- Rotation-Clogging Protection
- Overcurrent Protection
- Reverse Connection Protection
- .....

## ➤ Partners

### Engineering Vehicle



### Passenger Car



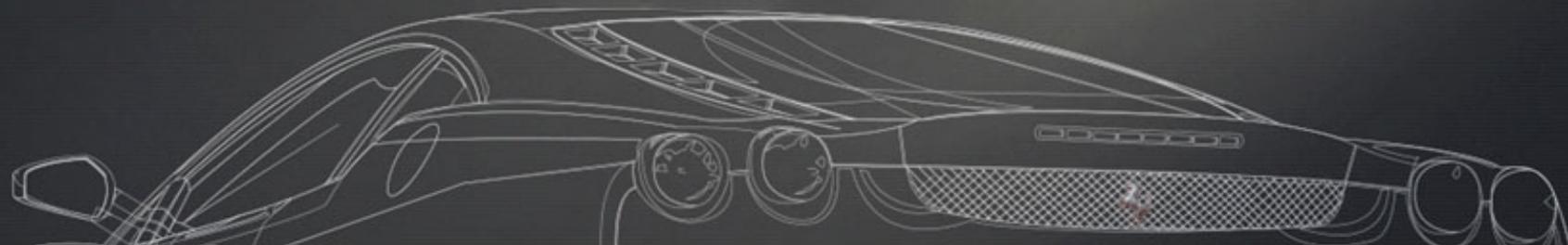
### System Manufacturer



A large, semi-transparent blue wireframe graphic in the background, resembling a stylized map of China or a complex network structure. It consists of numerous blue dots connected by thin lines, forming a mesh-like shape.

**Yunyi Electronic Co.,Ltd. has always been committed to the R&D,  
manufacturing and marketing of automotive brushless motor  
controller,  
as well as creating value for customers and assisting customers to  
realize commercial success!**

# THANKS



*IMPRESSION · CROSSING · OVERLOOKING*

**YUNYI**<sup>®</sup> 云意电气

[www.yunyi-china.com](http://www.yunyi-china.com)