

# Development of software-embedded electrification modules for autonomous driving (TIER IV, Inc.)

# TIER IV

City	Year of Establishment	Founder	Website
Shinagawa, Tokyo	2015	Shinpei Kato	<a href="https://tier4.jp/en/">https://tier4.jp/en/</a>

Partner VC	Latest round of Fundraising	Valuation
—	Series B	Non-Disclosure

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○ Business Plan

Develop four software-embedded electrification modules for autonomous vehicles to meet the requirements of autonomous driving level 4 and accelerate its implementation in society by establishing the foundations for future mass production.

1. Vehicle Control Unit software
2. Redundant electric power steering
3. Redundant electric brake
4. Absolute steering angle sensors in electric power steering

Maximize sales in this business area and forge new benchmarks targeting customers such as OEM, ODM, and tier 1 suppliers.

○ Research Outline

Develop the modules comprised of three core technologies by utilizing expertise in designing and developing autonomous vehicles, including autonomous driving software to Drive-By-Wire hardware.

1. Verified Autonomous Driving
  2. Redundant Drive-By-Wire
  3. Scalable Electrical & Electronic Architecture
- Resolve issues related to quality, durability, and individual variability achieving efficiency, safety, and scalability, and provide modules necessary for safe autonomous vehicles, regardless of vehicle model or size.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Information & Communication	DMP 2023~2025FY	JPY 2,000 million	China

○ International collaborative technology demonstration

- Relationship development with potential local partner

Provide fundamental technologies and requirements to local partners. Organize and advance technical demonstration items in line with the Chinese market environment, regulations, and approval systems through partners, and confirm the technical specifications that adapt to business expansion in China.