



Hyundai University in Singapore conducts AI research on electric vehicle manufacturing

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Nanyang Technological University (NTU) in Singapore and Hyundai Motor Group, a South Korean automaker, have agreed to carry out four research projects focusing on the production of electric vehicles and future mobility technologies. Specifically, four pilots will consider the use of artificial intelligence (AI) and layered modeling technology.

The research initiative was aimed at developing applications that could pave the way for next-generation automotive manufacturing facilities, the NTU said in a statement Thursday.

For example, one of the projects is to consider building a machine learning algorithm for vehicle image processing that can be used to check the quality of battery-powered electric vehicles. These cars are fully battery powered. According to NTU, AI-powered image processing sensors deployed in manufacturing plants can detect defects and anomalies throughout the

manufacturing process to ensure the safety and reliability of the final product.

Another project will explore the integration of laminated modeling (3D printing) to customize auto parts for electric vehicles and how to implement these parts with small factor operations. This facilitates a smart manufacturing site where you can build a car model that is customized to your customers' tastes.

According to NTU, this early phase of four research pilots focused on AI and 3D printing will begin this month.

The partnership began last October with a milestone at Hyundai's Innovation Center in Singapore. Meanwhile, NTU was announced as the center's first academic research partner for automakers. The modern research facility is expected to be completed by the end of 2022 and focuses on future mobility technologies.

The two partners also planned to hold a 3D printing competition in automotive engineering. We hoped that this would increase interest in electric vehicle manufacturing and foster new talent in this area. NTU students and researchers can also use modern industry experts to exchange ideas.

Hyundai in June [Partnered with mobile app platform Grab](#) Promote the adoption of electric vehicles in Southeast Asia. The two companies are looking for pilots to facilitate the use of such vehicles for grab drivers and delivery partners, including offering a leasing program in the "battery as a service" model.

Korean car maker announced in March [Partnership with Singapore phone company Singtel](#) Hyundai develops a system for monitoring electric vehicles driven on the island. The Internet of Things (IoT) platform provides Hyundai with telemetry ("automatic data transmission") on the status and performance of batteries that power electric vehicles that use the company's subscription services.

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