FANUC to Build Factory of the Future Using NVIDIA AI Platform

GTC Japan -- NVIDIA and FANUC Corporation today announced a collaboration to implement artificial intelligence on the FANUC Intelligent Edge Link and Drive (FIELD) system to increase robotics productivity and bring new capabilities to automated factories worldwide.

Adding AI to the FIELD system will give robots the ability to teach themselves to do tasks faster and more efficiently. By learning together, what used to take a single robot 8 hours can now be done by eight robots in an hour.

"The age of AI is here," said Jen-Hsun Huang, founder and CEO of NVIDIA. "GPU deep learning ignited this new wave of computing where software learns and machines reason. One of the most exciting creations will be intelligent robots that can understand their environment and interact with people. NVIDIA is delighted to partner with FANUC, the world's leading industrial robot and factory automation company, to realize a future where intelligent machines accelerate the advancement of humanity."

Building the factory of the future will have wide-ranging impact. The International Federation of Robotics predicts the deployment of industrial robots will increase to around 2.6 million units worldwide by 2019 -- up from 1 million in 2015. These robots are central to the global manufacturing process used to make everything from cars to mobile phones.

"Advances in artificial intelligence will allow robots to watch, learn and improve their capabilities," said Kiyonori Inaba, board member, executive managing officer and general manager of FANUC. "Deep learning will also cut down the time-consuming programming of robot behavior. We are thrilled to be advancing the robotics revolution with NVIDIA."

The breakthrough that is enabling AI manufacturing is GPU-accelerated deep learning. FANUC will use a range of NVIDIA GPUs and deep learning software to enable AI in the cloud, the data center and embedded within devices.

These next-generation capabilities will include:

- Deep learning robot training with NVIDIA GPUs
- GPU-accelerated AI inference in FANUC Fog units used to drive robots and machines
- Embedded systems for robots to do inference locally

About the FIELD System
FIELD system is a platform to improve factory production and efficiency with advanced artificial intelligence. By combining artificial intelligence and edge computing technology, the FIELD system processes the edge-heavy sensor data collected from various machines to make the machines intelligently and flexibly collaborate to achieve advanced manufacturing capabilities.

Keep Current on NVIDIA
Subscribe to the NVIDIA blog, follow us on Facebook, Google+, Twitter, LinkedIn and Instagram, and view NVIDIA videos on YouTube and images on Flickr.

About NVIDIA
NVIDIA (NASDAQ: NVDA) is a computer technology company that has pioneered GPU-accelerated computing. It targets the world's most demanding users -- gamers, designers and scientists -- with products, services and software that power amazing experiences in virtual reality, artificial intelligence, professional visualization and autonomous cars. More information at http://nvidianews.nvidia.com/.

Certain statements in this press release including, but not limited to, statements as to: the impact and benefits of artificial intelligence and GPU deep learning; the deployment of industrial robots; FANUC's use of NVIDIA GPUs and deep learning software; and the range of next-generation capabilities are forward-looking statements that are subject to risks and uncertainties that could cause results to be materially different than expectations. Important factors that could cause actual results to differ materially include: global economic conditions; our reliance on third parties to manufacture, assemble, package and test our products; the impact of technological development and competition; development of new products and technologies or enhancements to our existing product and technologies; market acceptance of our products or our partners' products; design, manufacturing or software defects; changes in consumer preferences or demands; changes in industry standards and interfaces; unexpected loss of performance of our products or technologies when integrated into systems; as well as other factors detailed from time to time in the reports NVIDIA files with the Securities and Exchange Commission, or SEC, including its Form 10-Q for the fiscal period ended July 31, 2016. Copies of reports filed with the SEC are posted on the company's website and are available from NVIDIA without charge. These forward-looking statements are not guarantees of future performance and speak only as of the date hereof, and, except as required by law, NVIDIA disclaims any obligation to

update these forward-looking statements to reflect future events or circumstances.

© 2016 NVIDIA Corporation. All rights reserved. NVIDIA and the NVIDIA logo are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. Other company and product names may be trademarks of the respective companies with which they are associated. Features, pricing, availability and specifications are subject to change without notice.

Ken Brown
Corporate Communications
+1-408-486-2626
kebrown@nvidia.com