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Micron Joins CERN openlab

November 23, 2018 by staff   Leave a Comment

Last week at SC18, Micron announced that the company has joined CERN openlab, a unique public-private partnership, by signing a three-year agreement. Under the agreement, Micron will provide CERN with advanced next-generation memory solutions to further machine learning capabilities for high-energy physics experiments at the laboratory. Micron's memory solutions that combine neural network capabilities will be tested in the data-acquisition systems of experiments at CERN.

CERN openla

> " *Micron is committed to pushing the limits of innovation by providing high-performance memory and storage solutions to solve the world's greatest computing and data processing challenges in data analytics and machine learning,"* said Steve Pawlowski, vice president of advanced computing solutions at Micron Technology. *"We're proud to work with CERN to deliver machine learning capabilities that will enable high-energy physics scientists to make advances in their science and research experiments."*

FEATURED JOB

HPC Systems Engineer
R SYSTEMS

High-energy physics scientists are looking to deploy leading-edge technologies that ca support their experiments' computing and data processing requirements. Memory pla vital role in accelerating intelligence by processing vast amounts of data, helping resea gain valuable insights from data generated by high-energy physics experiments.

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As part of the work with CERN, M
will develop and introduce a spec
designed Micron memory solutio
will be tested by researchers at C
for use in rapidly combing throug
vast amount of data generated b
experiments. The project will fea
FPGA-based boards with Micron'
advanced high-performance mer
combined with an advanced neu
network technology developed ir
collaboration between Micron ar
FWDNXT, a provider of deep lear
and AI solutions.

> ' *CERN collaborates openly with both the public and private sector, and working*
> *with technology partners like Micron helps ensure that members of the research*
> *community have access to the advanced computing technologies needed to carry ou*
> *our groundbreaking work," said Maria Girone, CTO at CERN openlab. "It is critical to*
> *the success of the Large Hadron Collider that we are able to examine the petabytes*
> *data generated in a fast and intelligent manner that enables us to unlock new*
> *scientific discoveries. These latest-generation memory solutions from Micron and*
> *machine learning solutions from FWDNXT offer significant potential in terms of*
> *enabling us to process more data at higher speeds."*

At SC18, Micron demonstrated its high-performance memory solutions running FWDN
Machine Learning SDK.

In this video from SC18 in Dallas, Dr. Sofia Vallecorsa from CERN openlab describes how Ai
being used in design of experiments for the Large Hadron Collider.

In related news, Google has joined CERN openlab as well.

> ❝ CERN has an ambitious upgrade programme for the Large Hadron Collider, which will result in a wide range of new computing challenges," says Alberto Di Megl head of CERN openlab. "Overcoming these will play a key role in ensuring physicists are able to make new groundbreaking discoveries about our universe. We believe th working with Google can help us to successfully tackle some of these challenges, as well as producing technical breakthroughs that can have impact beyond our resear community."

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