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Student programmer wins CERN openlab internship

Main Technology Student programmer wins CERN openlab internship

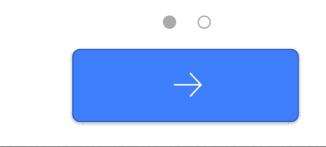
usatoday.com 11.15 / 13:22

Student wins Intel's Modern Code Developer...

Tags: #Intel



Das Verzeichnis Nr. 1 der Schweiz. Infos schnell & einfach finden!



If you were tasked with choosing the ultimate grand prize for a young coder, what would it be?

A million dollars? Nah. Lunch with PC pioneer Bill Gates? Ho-hum. A job at Facebook? Meh.

Instead, it would likely be an internship at CERN openlab, one of – if not -- the most celebrated scientific research centers on the planet.

Based in Geneva, CERN houses the world's largest particle physics lab, including its underground Large Hadron Collider (LHC), plus it's the birthplace of

the World Wide Web and home to CERN openlab, a renowned facility that encourages experimentation and collaboration to solve data-intensive challenges.

Mathieu Gravey, a 25 year-old PhD student in France, has won this coveted grand prize from the Intel Modern Code Developer Challenge, in partnership with CERN openlab.

"This is very, very exciting," says Gravey, in a Skype video interview with USA TODAY. "It's the opportunity for me to enter and work in one of the most famous international research centers.

"I hope to meet interesting scientists, while acquiring and developing new skills under them," adds Gravey. "Data analytics and simulation through cutting edge technologies are key fields of study

The challenge

for years to come.

Available only to students, this international coding contest challenged students to optimize code used to simulate brain development.

In particular, the software focuses on simulating the development of a normal and diseased brain, in order to identify the causes and potential treatments for neurodevelopmental brain disorders, such as epilepsy, autism, and schizophrenia.

This code is part of an existing CERN openlab research project, in collaboration with Newcastle University in the UK, which uses a "parallel programming" framework to help accelerate research among multiple scientists.

Students who entered the Intel Modern Code Developer Challenge were tasked with optimizing the code to improve its runtime performance, allowing researchers to make life-changing scientific breakthroughs faster.

Out of the roughly 2,000 students, representing 130-odd universities across 19 countries, Gravey submitted the fastest optimized code to win the 9-week internship at CERN openlab in 2016.

"Brain simulation is very interesting and it might be the future of informatics," says Gravey. "Nowadays, smart processes are developing faster than ever before; the link between computer and biology is also getting stronger.

Gravey maintains his biggest challenge was "diving into code that you haven't written, plus this kind of algorithm is out of my field of study. These optimizations were performed through an iterative process.

Perhaps he's just being modest: according to Intel, Gravey improved the performance of the code by a whopping 32,000 percent -- from 45 hours to just over 8 minutes.

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While the internship was the Grand Prize, 1st place winners earned a trip for a guided tour of CERN, while 2nd place winners get a trip to the 2016 Supercomputing Conference in Austin, Texas, where all winners were announced at this year's event on Saturday.

The impac...

Read the full story on usatoday.com

Last news

Altera and Yogitech add lockstep to Nios core

11.24 / 08:44 electronicsweekly.com

Altera and Yogitech add lockstep to Nios core Altera and Yogitech of Italy have come up with a Functional Safety Lockstep for the Nios II embedded processor which they say reduces risk in design cycles and helps system designers simplify certification for industrial and automotive safety

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Black Friday Deals: 5 Xbox One Games You Can't Miss

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Here are our picks of the games you need to add to your Xbox One collection this sale...

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Xiaomi Mi Pad 2 With Full Metal Body, Intel Atom SoC Launched

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Shelter Island Grant Awarded

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The California Division of Boating and Waterways has awarded the Port of San Diego a \$6.1 million grant from the Harbors and Watercraft Revolving Fund for the Shelter Island Boat Launch Facility Improvements Project. The grant will help fund the estimated \$9.5 million needed for the

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Asustek enjoys 60% share of Indonesia motherboard market

1 11.24 / 08:44 digitimes.com



Despite performing similarly to Gigabyte Technology in terms of motherboard shipments in the worldwide market, in Indonesia, Asustek Computer currently has a 60% share in the local motherboard market, while Gigabyte only has 15% and Micro-Star International (MSI) 7%, leaving

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IC designers eye business opportunity from force touch solutions

11.24 / 08:43 digitimes.com



More Taiwan-based IC design houses, including FocalTech Systems and Himax Technologies, have stepped up their efforts to develop force touch sensors as China-based smartphone vendors Huawei and Xiaomi Technology are likely to launch flagship smartphones supporting 3D touch

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MWCD: Winter Drawdown Begins

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As part of the flood risk management operation of the reservoirs and dams in the Muskingum River Watershed, the USACE is conducting annual temporary drawdown of the normal pool elevation of the lake levels. The lakes will be lowered by 5 to 8 feet over the next 30 to 45 days so that they

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Protests spurring over forced unpaid holiday policy at CPT

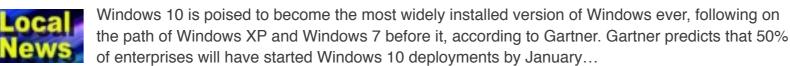
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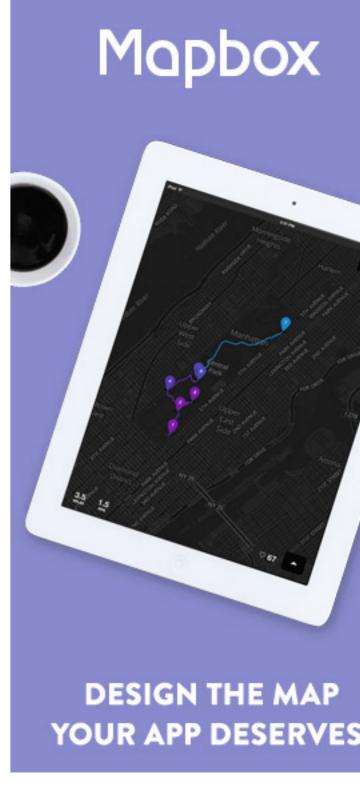
Protests have spurred in various locations around Northern Taiwan over a move from Taiwanbased panel maker Chunghwa Picture Tubes (CPT) to require thousands of employees to take

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