

Education | China

Training students in cutting-edge 3D design

Hubei Communications Technical College

To ensure its 3D design labs are always available, Hubei Communications Technical College deployed the Lenovo Smart Cloud Classroom solution. Today, the college runs 3D workloads in a private cloud based on Lenovo ThinkSystem SR670 V2 servers, powered by NVIDIA® A16 GPUs and NVIDIA Virtual GPU Software—boosting performance and reliability.



Lenovo



NVIDIA

1

Customer background

Who is Hubei Communications Technical College?

Founded in 1953 and certified as a higher vocational college in 2001, Hubei Communications Technical College is higher education institution based in Hubei Province, China. One of the leading vocational schools in the country, the college welcomes 15,000 students and carries out 4,000 vocational appraisals every year.



2 The challenge

Hubei Communications Technical College strives to offer students the skills they need to thrive in sectors including automotive, rail, aerospace, road infrastructure, and more. Today, design and engineering in these sectors depend on digital tools, and the college trains its students in the use of professional 3D design software.

Lu Bo, Information Center Director, Hubei Communications Technical College, elaborates: “High-performance IT is an essential capability for the college, both to support the demanding compute requirements of our 3D design software and the latest government initiatives around personalized, data-driven learning experiences.”

2 The challenge

With its existing IT infrastructure approaching end-of-life, the college decided to refresh its environment. The aim was to replace the 300 desktop PCs in its teaching labs as well as the servers that support key applications such as its learning management system (LMS).

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“In Lenovo Smart Cloud Classroom, we found an **end-to-end solution** that met all of our requirements. Lenovo offers us the combination of modern hardware, cutting-edge software, and responsive support services—helping us to **deliver exceptional learning experiences to our students.**”

Lu Bo

Information Center Director, Hubei Communications Technical College

3 The solution

Shifting to private cloud

Hubei Communications Technical College selected Lenovo Smart Cloud Classroom—an integrated private cloud solution based on Lenovo ThinkSystem SR670 V2 servers equipped with NVIDIA® A16 GPUs. Using NVIDIA RTX Virtual Workstation (vWS) software, part of the NVIDIA Virtual GPU (vGPU) software portfolio, the college can run graphics-intensive workloads in the cloud—eliminating the need for costly desktop PC infrastructure.

Hardware

Lenovo ThinkSystem SD530 Server
Lenovo ThinkSystem SR670 V2 Server powered by NVIDIA® A16 GPUs

Software

NVIDIA RTX Virtual Workstation (vWS)
NVIDIA Virtual GPU (vGPU)

Services

Lenovo Deployment Services

3

The
solution

“With Lenovo Smart Cloud Classroom, we can deliver 3D design capabilities to our labs far more reliably and cost-effectively,” confirms Lu Bo. “In the past, managing and maintaining our lab PCs was a complex, time-consuming process. By moving to the private cloud, we can deploy new workstations quickly and easily.”

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“By leveraging NVIDIA vWS on our workstations, we can run 3D design workloads on our Lenovo ThinkSystem SR670 V2 servers and deliver highly responsive end-user experiences. Our students and our teaching staff are very satisfied.”

Lu Bo

Information Center Director, Hubei Communications
Technical College

3 The solution

Engaging expert services

To support its LMS and school administration software, the college deployed Lenovo ThinkSystem SD530 servers, offering high performance for enterprise workloads in a compact data center footprint. From the presales process and beyond, Hubei Communications Technical College worked closely with experts from Lenovo. “Lenovo helped us design, size, and deploy our new private cloud solution quickly and smoothly,” says Lu Bo.

4 The results

By replacing its aging desktops with the Lenovo Smart Cloud Classroom solution, Hubei Communications Technical College benefits from the improved energy efficiency of Lenovo ThinkSystem SR670 V2 and Lenovo ThinkSystem SD530 servers. As well as reduced operational costs, the college helps ensure that students and teachers have reliable access to cutting-edge 3D design tools.

“With Lenovo Smart Cloud Classroom, we’ve eliminated the growing cost and reliability issues associated with our previous desktop infrastructure,” adds Lu Bo.



50% improvement in server utilization rate



30% reduction in operational costs



Boosts reliability

“Through our partnership with Lenovo, we can deliver even better learning experiences to our students.”

Lu Bo

Information Center Director, Hubei Communications Technical College



Why Lenovo?

Hubei Communications Technical College selected Lenovo for the build quality and reliability of its hardware as well as the strength of its services organization.

“Lenovo has a very strong technical team of infrastructure experts, including pre-sales architects, implementation delivery teams, application tuning teams, and many more,” says Lu Bo. “Early on in the proof-of-concept stage, the Lenovo team helped us to solve some technical issues with the NVIDIA vGPU software, and we were impressed with their technical expertise. Whenever we need technical assistance in the future, we know we can count on Lenovo.”

How can colleges deliver high performance for demanding software?

Hubei Communications Technical College shifts 3D design workloads from PCs to the private cloud, powered by Lenovo ThinkSystem SR670 V2 servers.

[Explore Lenovo ThinkSystem Solutions](#)

