From student to engineer

4 computing essentials for both academic and hybrid office campuses

On a path like engineering, starting a career is top of mind for most students from their early undergraduate years. The more hands-on learning, the better. Technology plays a large part, especially the computer that's an engineering student's constant companion. Workstations are an increasingly popular choice on and off campus.

Here are four must-haves for the digital solutions engineering students will rely on throughout their higher ed years — and will still need every workday of their professional careers. The technology skills engineering students develop are a key contributor to their success on the job. Familiarity with these four essentials will put them that much farther ahead.

01. Performance

Powerful processing is crucial for performing the intensive computations and analytics required by specialized engineering software. Productivity is a priority in the demanding academic engineering environment, as it will be in the professional setting, so speed and reliability are of the utmost importance.

Students joining today's modern firms will be working with the same applications they used at school, with the advanced features they need to deliver the best work product for clients.

Lenovo ThinkPad® P Series Mobile Workstations, for example — with Windows 11 and powered by up to Intel vPro® with 12th Gen Intel® Core™ i9 processors — provide the highest level of power, reliability, performance, and professional graphics for an unrivaled PC solution. They're designed for these kinds of workloads. And they are ISV certified for the most popular professional engineering applications.

Checklist for performance

- Latest processors
- Appropriate storage
- Reliability

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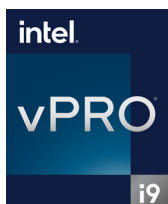
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02. Versatility

Student expectations have evolved, and student experience is a high priority. To meet today's academic and professional demands, computers must wear many hats. Students need fast devices that handle intensive computational tasks. They also need 3D graphics performance, along with high-resolution displays that perform in both indoor and outdoor settings. And they must be ready for the future with capability for AI, AR/VR, and other emerging technologies.

Collaboration is vital — whether with professors or fellow students, in person or remote. And collaboration skills and technology are just as important in the hybrid work environment. Devices with high-quality video and sound are a critical part of the collaboration experience. Great audiovisuals are also a must for downtime — whether gaming, streaming music, or watching TV.

Checklist for versatility

- Computational plus graphics capabilities
- Academics, productivity, fun
- Capability for emerging technologies

03. Mobility

Whether in a classroom or professional office, dorm, home, or anywhere in between — the world is mobile, school and work are hybrid, and the ability to work on the go is part of life. Students need powerful devices that they can carry easily, that go all day without plugging in, and that can connect seamlessly wherever they are.

Weighing in under four pounds with all-day battery life, the Lenovo ThinkPad® P1 Mobile Workstation can be the perfect choice for students who need compute power on the go.

Checklist for mobility

- Lightweight
- Long battery life
- Simple connectivity

intel. vPRO i9

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04. Security

Cyberattacks continue to plague higher education, which remains among the most vulnerable of all industries. Schools now have cybersecurity high on their priority lists. But students also need protection for their individual devices and data.

Security threats are also a constantly increasing reality in the workplace. Especially in smaller firms without large IT resources, cybersecurity can hinge on employee training and implementation of best practices. Any knowledge students bring with them will be a valuable contribution to their new workplace.

Lenovo systems with Intel vPro® provide better security — actively monitoring against attacks without bogging down performance or productivity, and including exclusive Intel® Hardware Shield multilayered security with a reduced PC attack surface.

Checklist for security

- Comprehensive
- Sophisticated
- Protects devices and data

Considering these four essentials when selecting engineering student computers will equip them for success — in their higher education years and as they start their professional careers.

Together with our partners, Lenovo delivers digital solutions for higher ed and beyond, including workstations for engineering students and professionals. Discover them today at **www.lenovo.com/Higher-Education.**

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