

CASE STUDY

Building Hybrid Learning Without Boundaries

Tailored technology, rapid deployment, and unwavering focus on student success.



24/7 Live Support Coverage



15+ Years Of IT Excellence



95% Client Satisfaction



8,000+ End Users Supported

Overview / Summary

Buffalo Creek Academy opened its doors in 2020, in the middle of the COVID-19 pandemic.

With no permanent facility secured, supply chain shortages delaying equipment, and an urgent need to deliver high-quality learning, the school faced challenges few others had to navigate at launch.

Determined to provide students with stability and opportunity, leadership turned to CTS for guidance and technical expertise.

CTS helped Buffalo Creek realize its vision of being a functioning, resilient learning environment by handling everything from setting up reliable networks and hybrid-ready classrooms, to ensuring parents and students could connect seamlessly.

Together, CTS and Buffalo Creek Academy built a foundation that sustains educational continuity without compromise.

Business Challenge & History

Buffalo Creek Academy launched with a bold vision: to provide students in Buffalo with a structured, supportive, and opportunity-driven education.

Yet, the timing could not have been more complex. Opening in 2020 meant navigating the uncertainty of a pandemic while establishing a new charter school from the ground up.

The leadership team had to balance long-term goals with urgent realities, ensuring that students could begin learning without interruption.

Key challenges included:

- **No permanent facility** at the time of launch, requiring rapid and flexible planning.
- **Supply chain shortages** delayed access to essential technology.
- **Urgent demand for hybrid learning** to accommodate both in-person and remote learning.
- **Community expectations** for stability, quality, and safe access to education during disruption.

The Solution

CTS acted as a hands-on technology partner. They installed network equipment both remotely and on-site, and staged Chromebooks in New York while Buffalo Creek secured Google for Education.

They imaged and licensed devices, then coordinated the shipment and distribution of 71 units to student homes.

CTS also advised on-campus architects on how to create the ideal IT layout.

Additionally, they:

- **Built teaching-studio kits:** LCD lights, high-quality microphones, cameras, and large displays.
- **Provided mobile tools:** portable whiteboards, privacy backdrops, and transport tubs for home setups.
- **Enabled coaching and support:** AirPods for in-ear coaching, a portable projector/screen for live coaching, remote troubleshooting, and on-site fixes.



“CTS has been really involved with the architects and designers. They’ve been on site ensuring that everything is set up for our security and our IT systems.”

Dr. Christopher R. Manning, Founder & Executive Director, Friends of Buffalo Creek Foundation

The Benefits or Outcomes

CTS’s involvement allowed Buffalo Creek Academy to launch and sustain operations during one of the most difficult periods for schools.

Students received Chromebooks quickly, enabling learning continuity whether at home or on campus.

Parents had direct access to a reliable system, while teachers gained the tools to run hybrid lessons effectively.

Key outcomes included:

- **Reliable connectivity** through the installed network and phone systems, ensuring uninterrupted teaching and communication.
- **Engaged classrooms** with professional-grade cameras, lighting, and sound setups that made hybrid lessons clear and accessible.
- **Flexible learning environments** with mobile whiteboards, backdrops, and projectors that allowed teaching anywhere, at home or school.
- **Ongoing stability** with CTS providing both remote troubleshooting and on-site support when needed.

Going Forward

Buffalo Creek Academy expanded its technology foundation with CTS as its long-term partner.

The academy developed concept classrooms that were hybrid by design, scaled beyond Buffalo, and created an international footprint.

With CTS guiding the IT strategy, the academy successfully delivered flexible, high-quality learning environments wherever students were located.

Ready to Build Reliable IT for Your Organization?

Partner with CTS for the strategy, tools, and support that keep your operations moving forward.

[Get Help Now](#)



Solutions Deep Dive

CTS's support went beyond general IT setup. The team provided targeted, technical interventions that allowed Buffalo Creek Academy to launch and operate smoothly:

- **Network and Communications:** Installed firewalls, wireless access points, and a phone system to establish a secure, reliable backbone for school operations.
- **Device Staging and Distribution:** Imaged, licensed, and configured Chromebooks, then shipped 71 units directly to families so students could access lessons immediately.
- **Hybrid Teaching Studios:** Equipped teachers with LCD lighting, HD cameras, professional microphones, large-format displays, and AirPods for real-time coaching.
- **Mobile Teaching Tools:** Supplied portable whiteboards, privacy backdrops, storage tubs, and projectors so educators could teach effectively both at home and on campus.
- **Ongoing Support:** Delivered remote troubleshooting plus on-site visits when needed, ensuring continuity for both staff and students.

Driving Education Forward With Enduring IT Support

CTS's role at Buffalo Creek Academy did not end once the doors opened. The partnership has continued to shape how the school operates and plans for the future.

Reliable systems have become the foundation for daily learning, and the technology framework by CTS has scaled as enrollment grows.

Teachers now have consistent tools to support both in-person and remote instruction, while leadership has the confidence that IT challenges will be addressed quickly and effectively.

With CTS as a long-term partner, Buffalo Creek Academy is positioned to deliver education that is both resilient and forward-looking.

