

Applied Electronics Delivers Immersive Experiences at University of Toronto's Myhal Centre for Engineering Innovation & Entrepreneurship

Toronto, Ontario



In late 2017, Applied Electronics was awarded the contract to design, supply and install audio visual systems into numerous learning and collaborations spaces in the University of Toronto's new Myhal Centre for Engineering Innovation & Entrepreneurship (CEIE).

With the immense success of that project, the University contracted Applied Electronics to design, supply and install a state-of-the-art space in 2019, to inspire students and faculty to push the boundaries of innovation.

Designed for large data analytics, the Stewart Blusson Visualization Laboratory is a leading edge facility within the Myhal Centre for Engineering Innovation & Entrepreneurship (CEIE). Featuring an 11 metre-wide immersive video wall with ultra-high-resolution technology, it enables students to experience larger than-life images, videos, models and simulations.

Forming the curved video wall is system of SiliconCore Lavender 1.2mm display panels that offer lower energy consumption, high brightness, cool-to-the-touch operating temperatures, and fast refresh rates.

The display sits on a RPV portrait oriented array custom 35Wx5H curved floor structure. A fully modular and expandable 32x32 DigitalMedia matrix switcher offers ultra-fast digital video and audio switching, and lossless HD multiroom signal distribution, for all types of AV sources. An Analog Way Aquilon C+ fully modular and scalable 4K/8K multi-screen presentation system and videowall processor offers versatile 4K digital connectivity, unmatched real-time 10/12-bit 4:4:4 video processing power, best-in-class image quality and pure 4K60p on each input and output with ultra-low latency.

A Christie Terra receiver delivers audiovisual data and control from an SDVoE system to displays

and other devices for complete AV and control connectivity. It provides quick status reports for increased ease-of-operation, system validation and user-confidence by creating a complete AV-over-IP distribution and processing system.

The audio system boasts a Q-SYS Core 510i integrated processor, ClockAudio mics, Shure & QSC cinema speakers with custom speaker mounts.

Four 27" and one 23" NEC LED 4K UHD LCD monitors in the space provide additional educational information, as well as a 55" LED LCD public display monitor as digital signage at the entrance of the Lab. The entire system is automated and tied in to a Crestron AV3 Series control system.

The Visualization Lab was completed in Spring 2020.

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