



Rochester Institute of Technology

INTRODUCTION

Rochester Institute of Technology (RIT) was founded in 1829 in Rochester, New York, and is known for its multi-disciplinary blend of technology, arts, and design. The latest development on campus is the Student Hall for Exploration and Development (SHED) which takes audience-centered design to new heights and covers more than 120,000 square feet of new construction.

"GIVEN THE SIZE AND SCOPE OF THIS NEW BUILDING, WE KNEW CRESTRON WAS THE RIGHT FIT. IT ALSO HELPS THAT IT HAS BEEN IMPLEMENTED ACROSS CAMPUS AS A STANDARD, AND IT IS AN EASY TRANSITION FOR THE AV TEAM TO TAKE OVER AND SUPPORT."

Chico Dominguez
SVP Technical Operations,
Kinly

THE CHALLENGE

RIT aimed to create an inclusive and technologically advanced space within its new SHED building that would accommodate the diverse needs of all students. This space needed to blend seamlessly with the rest of the college to maintain consistency and remain easy to use for students and instructors.

THE SOLUTION

Integrator Kinly previously worked alongside RIT, which led to trust and confidence in the Kinly team for the design and integration of the SHED project. Kinly knew Crestron DM NVX® AV-over-IP technology would be the right fit for this new building as it is already incorporated into the school and AV system.

"WE WANTED THE SHED TO BE A PLACE WHERE ALL STUDENTS CAN ACCELERATE THEIR CONCEPTS AND INNOVATIONS THROUGH COLLABORATION AND EXPLORATION. CRESTRON TECHNOLOGY HAS ALLOWED US TO BRING NEW CAPABILITIES TO THE STUDENTS AND CLASSROOMS."

David Munson
President,
RIT





THE TECHNOLOGY

RIT's SHED allows students to explore multiple interests and consider what is possible when combining those interests. It houses maker spaces, team spaces, dance studios, rehearsal rooms, 27 new classrooms, an ASL and Deaf Studies Community Center, and performing arts theaters. Transforming the center of campus, the building spotlights students and faculty while empowering them to think laterally, be creative, and apply what they have learned in the classroom while catering to students with accessibility requirements.

Crestron DM NVX® AV-over-IP was introduced in a previous project and has become the standard. The implementation was done to future-proof its multicast environments and allow multicast streams to be broadcast campus-wide in future applications and projects.

The atrium has a 23-foot-tall and 20-foot-wide video wall connected to the Crestron DM NVX technology system. This wall displays advertisements and messages or streams live events. Most of the large classrooms and lecture halls are based on multiple presentation systems with seven laser projectors recessed from the ceiling.

"CRESTRON DM NVX TECHNOLOGY HAS GIVEN STUDENTS THE ABILITY TO COMMUNICATE AND COLLABORATE EFFECTIVELY WHILE STAYING ON TRACK AND CONTINUING TO LEARN THROUGHOUT THE ENTIRE FACILITY."

Chico Dominguez
*SVP Technical Operations,
Kinly*

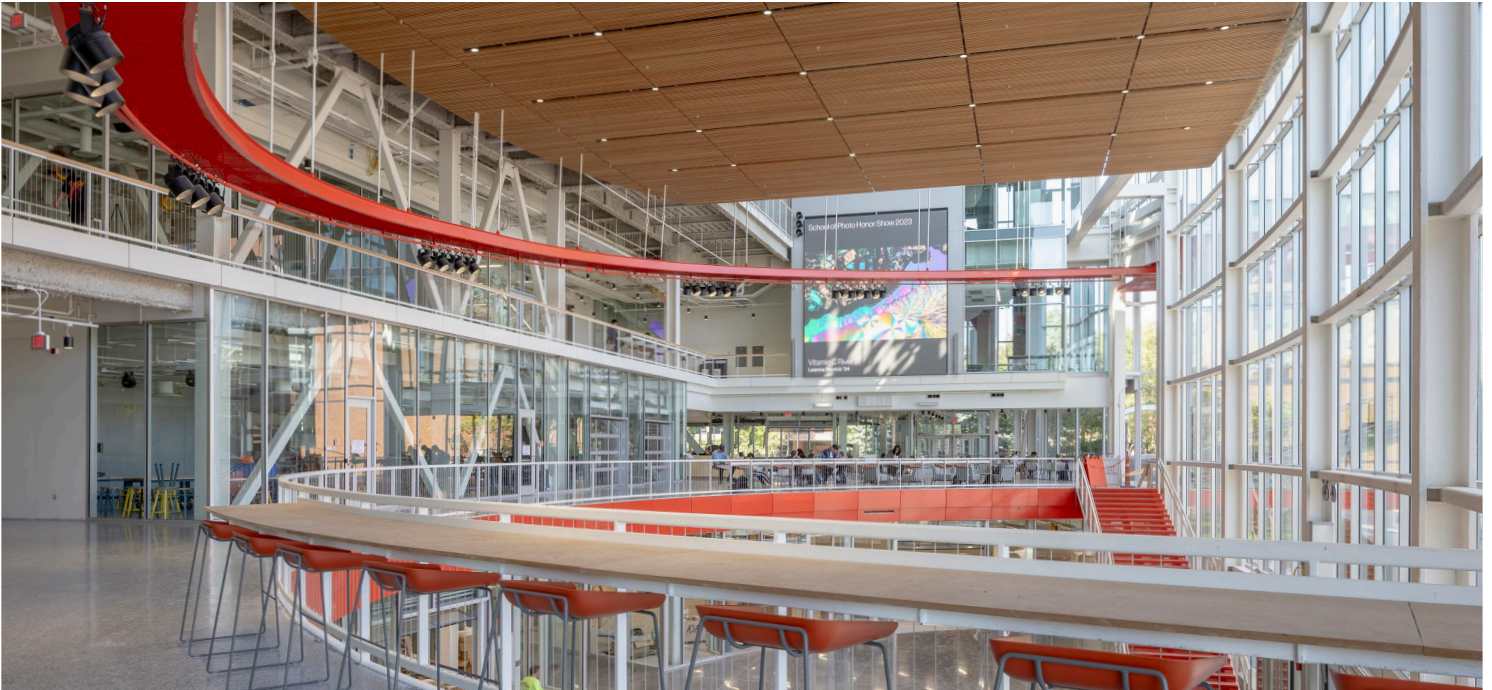
Crestron Flex for Zoom® software is available in every classroom for video conferencing along with DM NVX technology for dynamic content sharing throughout the facility. Shure® microphones are on all the tables, as well as handheld microphones for larger lectures. The smaller classrooms have LED display technology which leverages DM NVX technology for content sharing and distribution. Crestron scheduling panels are outside of each classroom to show whether or not the room is occupied.

Maker spaces also utilize DM NVX technology and laser projection, allowing engineering students to collaborate on projects internally and throughout campus. Different teams such as the multi-disciplinary robotics club, aero design, and electric vehicle team use these spaces to continue innovation and classwork. The maker showcase area is where engineering students finalize and demonstrate projects. Glass doors can open the entire space into the atrium to facilitate presentations and large events.



The dance studio incorporates DM NVX technology, transforming the background of the dancers to fit each routine's theme. The music room has a fully integrated laser projection and an LED display. Crestron touch screens, such as projection screens, lighting, and audio, are incorporated in large spaces and classrooms to control the environment. RIT also utilizes Crestron XiO Cloud® technology operations management platform for device management and remote monitoring.

"We took the opportunity to champion different groups and address previous challenges on campus, one of those being limited learning styles available for deaf and hard-of-hearing students," says Chico Dominguez, SVP technical operations for Kinly. "Working with Crestron solutions, we were able to enhance the assisted learning systems to add in advanced video technology leveraging Crestron's multi-window video processor for applications like sign language interpretation in class."



RESULTS

RIT's Student Hall for Exploration and Development purposely synergizes technology, art, and design under one roof. With flexible spaces that foster and stimulate creativity, collaboration, and discovery, the SHED is designed to uniquely serve every student and support their ambitions.

"We have loved working with RIT. The possibilities are endless in technology and student growth. Crestron has been a huge help in providing the necessary technology that engages students to learn more in their studies and collaborate across multiple platforms," says Chico Dominguez, SVP technical operations at Kinly.

Featured Products

4-Series® Control System
PRO4

4-Series® Control System
CP4N

DM NVX® 4K60 4:4:4 HDR Network AV
Encoder/Decoder with Downmixing and
Dante® Audio
DM-NVX-363

DM NVX® 4K60 4:4:4 HDR Network AV
Decoder
DM-NVX-D30

DM NVX® 4K60 4:4:4 HDR Network AV
Encoder
DM-NVX-E30

4K Multi-Window Video Processor with
HDBaseT® & HDMI® Outputs
HD-WP-4K-401-C

7 in. Wall Mount Touch Screen
TSW-770

10.1 in. Touch Screen
TS-1070

XiO Cloud® Management Platform