Prepare not just for today, but for future years of technology advancements.

Higher education learning spaces are constantly evolving. Prospective students want immersive learning environments rich with hands-on activities, with collaboration, sharing and BYOD at the forefront.

Level 3 Audiovisual brings real world solutions and technologies to your institution’s learning facility. We take the time to learn what your objectives are. We listen to what your goals are, both technologically and academically, and sculpt custom, one-of-a-kind audiovisual solutions tailored to your needs.

With our in-house quality control standards and award winning dedicated project managers. You can rest assured your audiovisual integration goes smoothly.

We strongly believe we are the best audiovisual company in the world. Let us show you why.
Jeremy Elsesser - COO

Jeremy Elsesser has been delivering quality integrated media technology solutions for more than 15 years. He began his career installing enterprise classroom network and audiovisual systems, progressing to the design and project management of a wide variety of technology enabled facilities. Jeremy has successfully managed teams on many large scale and complex design and installation projects throughout the US.

Driven by quality and the creative application of new technologies, Jeremy thrives on developing unique and innovative solutions for his customers. He has worked on a broad range of project types including broadcast, campus-wide AV integration, centralized recording/storage, and communications for higher education, corporate, healthcare, and hospitality clients.

As COO and quality evangelist, Jeremy closely monitors all design and installation projects, manages production, and is responsible for project management and engineering. Jeremy focuses himself and his team on delivering the highest quality systems available through the continual improvement and development of a complete quality management system utilizing AV/9000 standards.

Contact Jeremy at: JElsesser@L3AV.com or 602-363-7127.

Julianna Belcamino - Business Development

Julianna brings to Level 3 Audiovisual over nineteen years of experience in the audiovisual industry. This includes 9 years with Level 3 AV.

Julianna’s responsibilities include building and growing relationships with key accounts primarily related to: Education-Universities, Colleges & K-12 Schools/Districts. In addition to education, Julianna also works with State/Local Government, and has customers in the Healthcare and Corporate markets.

She has been included in projects with customers such as: The University of Arizona, Arizona Department of Education, Maricopa Community Colleges, Phoenix UHSD, Northern Arizona University, Cochise College, and Saint Xavier University. Contact Julianna at: JBelcamino@L3AV.com or 602-369-5030.

Brent Stanphill - Business Development

Brent brings to Level 3 Audiovisual over 19 years experience in the commercial audiovisual industry.

As Director of Business Development, Brent’s responsibilities include building strategic relationships with key accounts related to healthcare, corporate, and universities throughout the states.

Mr. Stanphill’s portfolio is wide-ranging, extending to medical simulation labs, operating room integration, advanced telemedicine theaters, enterprise AV integration, casino/gaming AV distribution systems, university classroom integration, video conference rooms, and medical 3D projection integration.

He has been included in projects with customers such as: Dignity Health, University of Arizona Cancer Center, Barrow Neurological Institute, Phoenix Children’s Hospital, Maricopa Buns Center, Midwestern University, University Medical Center, Eastern Arizona College, JP Morgan Chase, Dial/Henkel Corporation, John C Lincoln Hospital, Tucson Electric Power, Unisource, Gila River Casino, eBay.

Contact Brent at: BStanphill@L3AV.com or 602-770-0308.

Trevor Flynn - Engineer

Trevor Flynn has been engineering technical solutions to complex audiovisual challenges for 15 years. Trevor began his career in the field of audio production as a “front of house” audio engineer for stage productions and performances. This led him to eventually accept a teaching position as “Head of Live Sound Engineering” at a music performance university in the United Kingdom. After receiving a Master’s degree in Sound and Music Technology in the UK, Trevor returned stateside and began expanding his abilities into the world of audiovisual design.

Certified to the highest level of design from Infocomm International, Trevor has spent his time at Level 3 Audiovisual dealing with a wide range of facility design, including auditoriums, broadcast, medical simulation & instruction and unified conferencing. In all circumstances, Trevor’s focus for design is based upon the needs of the end user to create a simple and yet powerful tool for educators and healthcare professionals.

Trevor has engineered solutions for educational/healthcare facilities such as: The University of Arizona, Midwestern University, Saint Xavier University, Arizona State University, The University of Tennessee, University of Mississippi, University of Alabama, University of Arkansas for Medical Sciences, Mayo Clinic, St. Jude Children’s Hospital, Le Bonheur Children’s Hospital, and Arkansas Children’s Hospital.

Contact Trevor at: TFlynn@L3AV.com or 906-361-2159.

Jeremy Roberts - Healthcare Simulation Engineer

Jeremy Roberts started his career in the audiovisual industry as a field technician in the residential market. After working his way up to lead installation technician, then project management and finally to engineering he decided to leave the residential market in 2010 and pursue a career in the commercial market as a design engineer and project manager.

He has been employed with Level 3 Audiovisual since 2014 in the engineering department and has worked on healthcare, corporate and education projects.

Contact Jeremy at: JRoberts@L3AV.com or 480-203-4108.

Michael H. Young - Higher Education/Healthcare Expert & Author

Michael has long been an advocate in behalf of healthcare simulation programs and the professionals who operate them. Working with Level 3 Healthcare, a division of Level 3 Audiovisual, enables Michael to continue this advocacy for simulation-based education clients in higher education and hospital-based programs who need technological solutions around live viewing, recording and debriefing.

A veteran in this field and longtime professional in the IT industry, Michael brings decades of experience and a broad spectrum of knowledge to simulation education professionals. Michael is sought out for his expertise as a published author and presenter on topics related to simulation operations topics. This expertise includes the subjects of accreditation, certification, and technology. Currently working on a doctorate, he continues to learn and add to this expertise daily.

Contact Michael at: MYoung@L3HC.com or 602-339-9345.

Meet Our Higher Education Team!

We have passionate people who love working in Higher Education. Consider them at the forefront of technology. Leaders, if you will.

Julianna Belcamino
- Business Development

Jeremy Elsesser
- COO

Brent Stanphill
- Business Development

Trevor Flynn
- Engineer

Jeremy Roberts
- Healthcare Simulation Engineer

Michael H. Young
- Higher Education/Healthcare Expert & Author
The system must be able to simultaneously ingest the broadcast quality combined HD video and audio feeds from the various education spaces around the campus – 18 locations to start – all connected with fiber optics. The system must allow for scheduling of the planned and requested recordings as far into the future as the university had scheduling requests. The system must be able to insert metadata with the media thus creating an indexable and searchable library of content that contains standard taxonomies used for content grouping and organization. The system must allow for fast access to recorded content by multiple post production editors with the ability to quickly push final product through transcoding profiles to the university’s online content hosting platform. Most importantly, it needed to be relatively easy to use and able to be managed with the existing team.

Level 3 Audiovisual quickly began planning for what was to become a 4 year evolution of the university’s vision for their central recording suite of capabilities. Through a detailed design discovery process, we realized that the university had several critical requirements of the system that did not exist with the currently available recording hardware and software solutions. Level 3 Audiovisual turned to longtime partner Sony Electronics, the leader in broadcast and production technologies to assist with creating a solution that would fit the various needs and wants of the university.

The system is comprised of many components working together to make a single coherent system. The signals start in the various lecture halls and labs around the campus. The connected rooms are feeding an HD-SDI video and embedded audio signal via through dedicated fiber optics to a centralized location on campus allowing for the content and audio being presented to also be ingested. Each feed is connected directly to hybrid router that can handle both COAX and FIBER HD-SDI signals. The router outputs are connected to a Sony Media Backbone Production System (MBPS) along with a large multi-viewer to power the control room monitoring system. Additionally, there are fiber outputs connected all the way back to the lecture halls to allow for overflow and simulcast capabilities across campus. A single event in a lab can be live broadcasted to any lecture hall on campus at the push of a button.

Medical University Central Record

Indexable, searchable library of HD content able to stream to any location.

The Medical University, a forward thinking graduate and professional school, many years ago saw the usefulness and eventual requirement to capture audio and video of lectures, lab procedures, and other educational demonstrations. As the college has grown, the media resources team recognized the quantity of requests for recorded sessions were soon going to outpace the team’s ability to keep up. After an internal discovery process, the decision was to either hire more people, or come up with a solution that would allow the existing team members to manage the ever increasing requirements. The University turned to Level 3 Audiovisual to assist in developing a vision for a centrally located and managed recording and ingest ecosystem that would connect the various lecture halls, classrooms, and labs across the campus via dedicated fiber optics.
A complete university build focusing on collaboration and BYOD.

Founded by the Sisters of Mercy in 1846, Saint Xavier University was the first Mercy college in the United States and is Chicago’s oldest Catholic university. The University serves more than 4,000 students at the Chicago and Orland Park campuses, and its Loop location as well as the Gilbert, Arizona location and offers the following: 43 undergraduate programs; 25 graduate program options in arts and sciences, business, education and nursing; and a variety of program options in continuing and adult education. Recognizing Saint Xavier’s excellence in education, U.S. News and World Report has ranked SXU consistently among the Best Colleges in the Midwest.

Problem: Saint Xavier University, based in Chicago, IL, was determined to break the mold of typical informal and formal learning spaces by creating student-centered collaborative learning spaces that allowed students to move beyond consuming information and to become curators and creators of ideas, concepts and data. In an effort to solve this issue Saint Xavier partnered with Level 3 Audiovisual to assist with the design of collaborative technology systems for its campus being built in Gilbert, Arizona.

“It was our strategic goal to shift the instructor-student relationship by designing learning spaces that put the student at the center of the learning experience.” - Dr. Chris Zakrzewski, Assistant Provost for Technology and Instructional Innovation.

Saint Xavier had five major aspects of this brand new campus:
• Christie Brio enabled Huddle Spaces
• Campus wide collaboration as well as nationwide content sharing
• Design & Assist with Simulation Center Build
• 16ft wide Mosaic Video Wall
• 40ft wide blended projection screen with windowing capabilities for the Auditorium

Level 3 Audiovisual was tasked with finding the right blend of audio visual equipment for campus wide collaboration in each of its classrooms, nine collaboration learning studios, five nursing simulation labs and three control rooms. The campus also wanted a sixteen foot mosaic architectural video wall in the main entrance to wow students, faculty and visitors. To top it off, the school wanted a forty foot wide, seamless projection screen in their two hundred and fifty seat auditorium that could provide real time, multi-windowed video sources as well as BYOD (Bring Your Own Device) sharing for remote and untethered collaboration with remote guests and the SXU Chicago campus.

Solution: Christie Brio Huddle Spaces
The key component to satisfying the schools need for collaborative huddle spaces is the Christie Brio, a wireless presentation and collaboration solution that enables teachers and students to wirelessly present, share and interact with each other within the same room, across campus or across the country. Saint Xavier initially installed Christie Brios onto their Chicago campus with overwhelmingly positive results and greatly increased their use on the Gilbert, AZ campus.

The design concept behind the nine collaborative learning studios is quite simple. A typical room consists of anywhere from four to seven wall mounted LED displays around the room, each creating an independent huddle space. At each huddle space, the users have the choice to connect to the display through a hard wired connection or wirelessly via the Brio puck mounted behind the LED display. Groups at each huddle space can work independently of each other or with assigned groups within the space, campus or country depending on administrative assignment. The instructor can ‘take control’ of any huddle group at any time and focus attention to a relevant issue or idea. They can also select and display any connected device (a student’s iPad for example) and share that information to all groups, or revert the group back to an instructor led course.

“There is a paradigm shift happening in education where we are moving from the professor...
the instructors complete control of their room, its devices and collaborative device administration.

The University is ecstatic with the results and the instructors using the systems couldn’t be happier. Dr. Zakrzewski expressed it simply by saying “They just work”, which ultimately, is exactly what we strive to achieve at Level 3 Audiovisual with campus wide integration.

“The learning studios help faculty to create instructional moments for students to help them identify how their devices and technological tools bridge the classroom to the broader world in terms of civic life, everyday interactions, and the workplace. These connections showcase the critical thinking skills required of succeeding in a technological and social world and assist students in recognizing that technology and internet access and use is about more than entertainment.” – Dr. Renee Robinson, Professor, Department of Communication.

Simulation Centers & Control Rooms:
Saint Xavier School of Nursing, a National League for Nursing Center of Excellence, a designation held by only seventeen schools in the nation had been looking for a design-assist partner to provide and integrate technology into their new simulation center at their Gilbert, AZ campus. Level 3 Audiovisual was selected for this project based upon their extensive knowledge in Simulation Center design and technology integration.

For this particular project, we were asked to design and provide technology for five simulation rooms all tied into three separate control rooms. Saint Xavier’s simulation center is state of the art, using Gaumard and Laerdal simulators, KB Port video capture recording/debriefing software and a highly customized Crestron control system to provide a simple user interface and ease of use.

Each simulation room is equipped with two ceiling mounted cameras for different recording angles, ceiling mounted microphones for audio pickup, two separate speaker systems, one for the voice of the mannequin and one for overhead announcements, all to create a realistic environment to the students in training.

The fully integrated, state-of-the-art simulation center at the Gilbert, AZ campus gives Saint Xavier the ability to be highly competitive not only in nursing simulation and healthcare training, but in the healthcare field as a whole.

“The Gilbert, Arizona campus reflects the teaching pedagogy of nursing faculty. We are able to bring the patient and community into the learning studio transforming our delivery of course objectives within an interactive environment.” – Barbara Gawron, RN, DNP, CNE, CHSE, Director of Nursing Resource and Simulation Center.

Mosaic Video Wall:
A creative and technologically artistic element of this project is a custom designed sixteen foot Planar mosaic video wall located at the entrance of the building. It utilizes nineteen strategically placed and varyingly sized LED panels to create a “wow” factor for students, faculty and visitors. The design of this video wall is completely unique to Saint Xavier.

The school uses the video wall to show custom 4K video content made by students from local art programs as well as stunning photographs from around the world. The visual imagery and experience of this artistic feature, near the entrance to the building, gives visitors a glimpse into the overall level of technology incorporated into the building. This was a major goal of Saint Xavier’s which they achieved beyond what they had imagined.

Auditorium Blended Projection System:
One of the more impressive elements of technology integrated into Saint Xavier’s Auditorium is a three projector, blended video capability projected onto a forty foot wide projection screen. This blended video system displays up to four different video sources, in varying window sizes, on the screen at the same time. The Auditorium also features collaboration capabilities allowing participants within the room to share their device wirelessly, as well as share and receive content from remote locations for overflow or distance learning.

Whether it’s an Apple, PC or Android device, users in the auditorium can connect wirelessly to the projection system. The content can be shared on the blended projection system, throughout the campus or remotely to the Chicago campus with the touch of a button on the lectern.

Although the concept and approach to this collaborative capability seemed quite achievable, there was a major challenge in the fact that the control application for this level of collaborative sharing had not yet been developed.

Never one to back down from a challenge, Level 3 Audiovisual’s software developers dug in and worked with the manufacturer for over four months to develop the logic and make sure everything worked. The end result; a single user interface, through the Crestron control system, that provides disseminating information to students to the professor being more of a facilitator of learning. The learning studios allow us to move from theory to practice. Professors are able to present new information to the class as a whole, but then quickly rearrange the room so that they can facilitate more interpersonal interactions with the students and foster student-to-student collaborations within the class. The twist is that the student-to-student collaborations are now incorporating the students’ mobile devices, as each student is able to easily share the screen of their own device with the group as they collaborate. This makes the collaborations much more meaningful.” – Dr. Julie Reinhart, Professor, School of Education, Chair, Educational Technology Program, Director; STEM Education Center.
As you can see our work is vast and varied—but don’t think we skip on quality just because we have a wide brush stroke on the AV industry.

With pre-staging and in-house quality assurance we have several steps in place to make sure your design & integration goes smoothly.

We don’t stop there. We offer some of the best service and support in the industry so you don’t feel like you’re left with a system you don’t know anything about, or how to operate. Our staff will train you on best-use cases for your new system and be pro-active about service calls so you don’t have to think about your AV system working correctly—it just will.

Give us a try today and find out why we consistently win awards for our AV integrations and customer support.

**HOW DO YOU CONTACT US?**

**1-877-777-5328**  
M-F 8AM-5PM (MST)

**OR:**

**Info@L3AV.com**

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