



Georgia State University Library CURVE

“The visual impact of the CURVE interactWall is stunning, but our student and faculty researchers also appreciate the fact that no special knowledge or training is needed to use the system. They are free to concentrate on their visualizations and modeling applications, and not the control software.”

BRYAN SINCLAIR
ASSOCIATE DEAN AND PROJECT LEADER OF CURVE AT GEORGIA STATE UNIVERSITY LIBRARY





1 THE CLIENT

The Georgia State University Library plays a central role, providing support for campus teaching, learning, and research as well as a social space for the university community. In recent years, the University Library has progressively embraced digital collections and research tools alongside traditional print materials in order to create a dynamic, multi-dimensional learning environment.

QUICK FACTS

PROJECT

CURVE

CLIENT:

Georgia State University Library

LOCATION

Atlanta, Georgia

INDUSTRY

Education and Research

APPLICATION

Interactive Visualization System

VIDEO WALL

6x2 LCD touch wall

PROCESSORS

Alpha

SOFTWARE

CineNet, Touch Control

ADDITIONAL READING

curve.gsu.edu, research.library.gsu.edu/curve



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THE CHALLENGE

In 2013, the University Library began planning a new space that would propel them further into the realm of cutting-edge technology. The Collaborative University Research & Visualization Environment, or CURVE, would be an interactive research center in which students and faculty could dynamically view their materials on a large, ultra-high resolution canvas.

In order to realize their vision of CURVE, the University Library would need to implement a powerful, highly integrated video wall system. The system would require robust capabilities to support the activities of advanced researchers, including the ability to process information from a wide range of operating systems. However, it would also need to be intuitive enough to be operated by students of all disciplines with varying levels of technical expertise. In addition, it was important that the video wall system be highly interactive and responsive, creating an engaging collaborative environment at the center of the University Library.

After exploring a number of options, the University Library chose Haivision MCS to implement their [video wall system](#). Haivision MCS was selected because of its proven advanced visualization technology and ability to implement highly customized cutting-edge systems. Furthermore, as both manufacturer and integrator, Haivision MCS was exceptionally equipped to create a fully integrated, comprehensive video wall solution custom-tailored to serve the unique needs of the University Library.



3 THE SOLUTION

To bring the Library's Collaborative University Research & Visualization Environment to life, Haivision MCS worked closely with Georgia State to create a state-of-the-art, highly customized advanced visualization solution.

For the visualization canvas, Haivision MCS provided an [LCD video wall](#), a stunning 6x2 freestanding array of interactive touch panels with a combined resolution of 11520 x 2160. One of the largest touch walls built to date, it delivered an intelligent interactive experience and displayed content from Linux, Mac, and Windows operating systems, allowing students from all disciplines to dynamically engage with their data. Haivision MCS worked directly with University IT to design a fiber optic infrastructure, allowing the video wall to be connected by native fiber optic cables to a processor two floors below.

In addition to the video wall, Haivision MCS provided an 84" 4K workstation. The 4K workstation served as a break-out space where students could work on separate material with the same powerful

functionality as the video wall. Connected to a custom-built PC, the 4K display could run research software at ultra-HD resolution and provided touch interactivity. Students could easily share material on the 4K workstation by mirroring the content on the video wall.

For the controller, Haivision MCS provided its powerful [Alpha processor](#). With its ultra-high resolution capabilities, the Alpha was able to accept video, 3D renderings, massive data sets, and more from Linux, Mac and Windows workstations, placing the content on the wall at native resolution. Haivision MCS worked with University IT to optimize the center's PCs, Linux computers, and Macs for display on the video wall. In conjunction with the touch wall, the Alpha processor gave students the power to fully visualize and dynamically interact with information that was previously only viewable in segmented parts.



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THE SOLUTION (Continued)

To make the system both highly intelligent and easily accessible, Haivision MCS introduced a two-tiered software solution. For researchers with advanced technical material, [CineNet Software](#) provided a robust platform that facilitated dynamic manipulation of visual data across the video wall, offering drag-and-drop placement of content, zooming and cropping functions, and customizable workspace layouts. For students with more basic needs, the simple, intuitive Touch Control interface allowed them to open and control content on the video wall at the touch of a finger.

As the final facet of the comprehensive visualization solution, Haivision MCS provided the [GuardianCare](#) 24/7 Protection Program. GuardianCare provided regular system assessments, preventative maintenance, and onsite support to optimize the health and longevity of the video wall system. It also offered continuing access to new applications and software upgrades, allowing CURVE to continue to develop with new technology and innovations.

Haivision MCS's powerful, innovative technology allowed the University Library to create an immersive, interactive visualization center that transformed the learning experience. The system, named the interactWall, not only supported student research, but also fostered collaboration and excitement, ensuring the University Library's position as the heart of the Georgia State community.

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