



DCH Technology Consulting

Independent Consulting in Audiovisual, Control, and Smart Technology Integration

Empowering Spaces: A Consultant's Guide to Human-Centered Technology Integration

Prepared by: Douglas Hoag
Email: douglas.hoag@dchtc.com
Phone: (970) 313-3062

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1 Introduction

Technology systems no longer exist at the margins of a project. They are core to how people experience and interact with physical spaces. Whether you're delivering a high-stakes courtroom, a collaborative office environment, a transparent city council chamber, a flexible classroom, or a mission-critical emergency operations center, the success of the space depends on thoughtful integration of audiovisual, control, and supporting infrastructure.

At DCH Technology Consulting, we work with owners, architects, and engineers to plan technology around the people using each space. We help project teams connect operational needs with room design, infrastructure, and straightforward system operation. Our focus is on clear communication, dependable performance, and technology that fits its environment.

2 Engage a Technology Consultant Early and Reap the Benefits

Technology touches nearly every part of the modern built environment. However, when introduced too late in the process, it can derail budgets, compromise layout decisions, and create coordination headaches.

2.1 When you engage DCH Technology Consulting early, we help you:

- Guide room layout to avoid issues like poor sightlines, unintelligible audio, or awkward camera angles.
- Balance user needs and budget realities by defining system goals and associated costs during design.
- Coordinate technology requirements with architects, mechanical, electrical, and plumbing (MEP) engineers, structured cabling teams, and IT. This includes identifying power, cooling, and infrastructure needs early enough to inform the design.

Involving us early leads to fewer surprises, more confident decisions, and systems that support your long-term goals without unnecessary rework.

3 Human-Centered Design That Works for Everyone

We approach technology integration by considering how people use a space and what they need to participate effectively. Usability, accessibility, and clear communication guide our planning for remote participants in hearings, students in lecture halls, emergency response teams, and staff in hybrid meetings.

3.1 Our design philosophy considers:

- Sightlines and screen positioning for readability and engagement
- Auditory clarity, microphone placement, and speech intelligibility
- User workflow, ease of operation, and hybrid collaboration equity
- Integration with scheduling systems, occupancy analytics, and building automation

Technology should support the activity in the room without demanding unnecessary attention. We design for straightforward operation, clear communication, and dependable performance so users can focus on their work.

4 Independent Expertise, Tailored to Your Goals

We're not tied to manufacturers or products. We're your advocate. Our job is to translate your vision into a technology strategy that aligns with your budget, use cases, and internal capabilities.

4.1 Whether you need:

- Local presentation systems for training and instruction
- Network-based audiovisual distribution across a campus or enterprise

- Flexible BYOM (Bring Your Own Meeting) configurations
- Courtroom systems for digital evidence and remote testimony
- AI-informed analytics and smart room controls
- Customized user interfaces to support different staff roles

We provide the design guidance, documentation, and coordination needed to turn those goals into clear project requirements.

We help project teams account for audiovisual performance standards and accessibility requirements within the project's scope and constraints. We coordinate with architects, IT teams, and facilities departments so technology decisions are understood across disciplines and reflected in the design.

5 A Proven Track Record Across Sectors

Throughout my career, I've provided direct design guidance and technology leadership on projects serving cities, counties, K-12 districts, higher education institutions, court systems, legislative chambers, emergency response centers, and corporate campuses.

While those engagements were delivered under prior partnerships, my role remained consistent: I helped clients navigate complex technical decisions, aligned stakeholders and delivered outcomes that reflected technical excellence and human experience.

Through DCH Technology Consulting, I bring that experience to an independent practice focused on each client's goals. Recommendations are shaped by project needs, budget, and support capabilities, without ties to a particular manufacturer or product line.

6 Meeting the Moment: Designing for a Hybrid World

Hybrid participation brings different needs to each environment. Video arraignments, remote public comment, multi-agency emergency coordination, and virtual onboarding all require attention to how participants see, hear, and contribute. Planning should reflect the activity, the people involved, and the organization's requirements for participation.

We design systems that support meaningful participation for people in the room and those joining remotely. We also help owners evaluate where automation and AI-enabled features offer practical value, considering usability, support needs, and the organization's priorities.

7 Conclusion: Hire a Consultant Who Sees the Whole Picture

Technology influences how people work, communicate, govern, and learn. Early technology consulting helps project teams connect those activities with room design, infrastructure, and ongoing support so spaces can function as intended when they open and over time.

7.1 At DCH Technology Consulting, you get:

- A human-centered design approach backed by real-world experience
- Sector-spanning expertise from civic to corporate to education
- Early coordination with architects, MEP teams, structured cabling, and IT
- Independent design recommendations shaped by your goals, budget, and operational needs

Let's design smarter, more connected environments together.

Douglas Hoag
Principal Consultant, DCH Technology Consulting
douglas.hoag@dchtc.com | (970) 313-3062 | www.dchtc.com