

CEU Course Catalog

2025 -- 2026

Continuing education for architects, interior designers,
builders, and general contractors working in the luxury market.

16

SOLO COURSES

8

CO-PRESENTED

24

CATALOG TOTAL

4

CREDIT TYPES

PRESENTED BY

Mike Restrepo, Owner

Elite Pro Crestron Dealer | HTA Luxury Certified | OSHA Certified | Ubiquiti UISP/Pro Partner

ABOUT THIS CATALOG

A Working Field Education Program

Restrepo Innovations is a Franklin Lakes, NJ-based technology integration firm serving luxury residential and hospitality clients across Northern New Jersey, Connecticut, and the greater New York metro. This catalog represents sixteen solo-presented continuing education courses designed for architects, interior designers, builders, and general contractors who work in the premium construction market. These sixteen solo courses are part of a twenty-four-course catalog that also includes eight co-presented sessions with manufacturer representatives and industry partners. Each course is presented by owner Mike Restrepo and is grounded in what is actually built in the field -- not theoretical spec sheets. All courses are available as in-person lunch-and-learns, virtual sessions, or on-site presentations at the project level.

Contact: Mike Restrepo | 201.405.2022 | mike@restrepoinnovations.com

Office: 599 Franklin Ave, Franklin Lakes, NJ 07417

Service Area: NJ -- Bergen, Essex, Morris, Passaic, Hudson counties + luxury markets (Alpine, Saddle River, Tenafly, Short Hills, Montclair) | CT -- Fairfield County, Litchfield County | NY spillover -- Westchester, Manhattan, Hamptons

CREDIT STATUS

AIA Continuing Education System (CES) Provider application in progress. IDCEC (Interior Design Continuing Education Council) Corporate Membership to follow. Until provider numbers are issued, courses listed for AIA HSW or IDCEC credit are presented as professional development sessions and will be filed for credit on attendees' behalf once approval is complete.

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Sixteen Solo Courses

FOR ARCHITECTS

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PLUS EIGHT CO-PRESENTED COURSES

Lutron, Crestron, Coastal Source, Marvin, Screen Innovations, Trufig, Ketra, and partner manufacturers. Full roster on the final pages.

COURSE 01

Designing for Acoustic Privacy in Open-Plan Luxury Homes

AUDIENCE	CREDIT	LENGTH
Architects	AIA HSW	60 min (lunch-and-learn) 90 min (extended)

FORMAT

In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION

Open-plan design creates sightlines and flow, but it dissolves the acoustic boundaries that occupants rely on for privacy, concentration, and rest. This course examines the relationship between architectural decisions -- ceiling height, material selection, ceiling coffers, wall returns -- and the acoustic performance of integrated audio and speech-privacy systems. Attendees leave with a working framework for specifying acoustic treatments and low-voltage infrastructure that function together from the design development phase forward.

LEARNING OBJECTIVES

At the end of this course, attendees will be able to:

- 01 Identify architectural conditions -- open ceilings, hard surfaces, shared HVAC chases -- that create acoustic privacy failures in luxury residential construction.
- 02 Describe the role of sound masking, distributed audio zoning, and structural decoupling in protecting occupant privacy and welfare.
- 03 Specify ceiling and wall blocking requirements for in-ceiling speaker and sound-masking emitter rough-ins at the CD phase.
- 04 Evaluate a floor plan for acoustic risk zones and recommend design modifications that reduce remediation cost after substantial completion.

HSW JUSTIFICATION

Acoustic privacy directly affects occupant mental health, concentration, and sense of security -- welfare criteria under AIA HSW guidelines. Failure to address acoustic separation in open-plan homes has documented links to elevated stress and reduced cognitive performance.

60-MINUTE OUTLINE

- 0:00-0:05 Welcome and learning objectives
- 0:05-0:15 The physics of sound in open-plan spaces: reflection, absorption, and flanking paths
- 0:15-0:28 Material and geometry choices that architects control (ceilings, flooring, glass area, volume)
- 0:28-0:42 How integrated audio and sound-masking systems compensate -- and where they cannot
- 0:42-0:53 Case study: pre-construction coordination vs. post-drywall remediation cost comparison
- 0:53-1:00 Q&A; and certificate distribution

PRESENTED BY

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Elite Pro Crestron Dealer | HTA Luxury Certified | OSHA Certified | Ubiquiti UISP/Pro Partner

WHY THIS MATTERS

Acoustic failures in luxury homes generate among the highest owner-dissatisfaction callbacks in the technology trade -- and most are traceable to design decisions made before a single wire was pulled. Retrofitting sound isolation or speaker placement after finish work is installed routinely costs \$15,000 to \$50,000 per floor and frequently requires reopening ceilings.

COURSE 02

Low-Voltage Rough-In: What Architects Need to Spec at CD Phase

AUDIENCE	CREDIT	LENGTH
Architects	AIA HSW	60 min (lunch-and-learn) 90 min (extended)

FORMAT

In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION

Low-voltage systems -- structured cabling, AV, lighting control, security, and access -- are routinely treated as a contractor-coordinated afterthought, which means they arrive on the drawings too late to influence framing, fireblocking, or ceiling design. This course gives architects a practical command of what must appear on construction documents to protect the project schedule, the owner's budget, and the building's life-safety compliance. Attendees leave with a CD-phase low-voltage specification checklist and a clear picture of how early coordination compresses change orders downstream.

LEARNING OBJECTIVES

At the end of this course, attendees will be able to:

- 01 List the minimum low-voltage rough-in requirements -- conduit sleeves, blocking, and box locations -- that must appear on architectural drawings at the CD phase.
- 02 Distinguish between low-voltage work that is code-regulated (fire alarm, security wiring in certain occupancies) and work governed primarily by manufacturer and coordination requirements.
- 03 Coordinate with the AV/technology integrator at design development to prevent scope gaps between the electrical and low-voltage trades.
- 04 Identify wall and ceiling conditions that create conflicts between low-voltage routing and fire-rated assemblies, and specify compliant penetration details.

HSW JUSTIFICATION

Improper low-voltage penetrations through rated wall and floor assemblies compromise fire-separation integrity -- a direct life-safety concern under AIA HSW criteria. Additionally, inadequate conduit infrastructure for egress and security system wiring affects occupant safety in emergency conditions.

60-MINUTE OUTLINE

- 0:00-0:05 Welcome and learning objectives
- 0:05-0:18 What "low-voltage" actually means on a luxury project: scope, trades, and permit jurisdiction
- 0:18-0:32 The CD-phase checklist: conduit, blocking, sleeve, and box placement by room type
- 0:32-0:45 Fire-rated assembly compliance: penetrations, firestop, and code exposure
- 0:45-0:55 Case study: three change orders that a single coordination meeting would have prevented
- 0:55-1:00 Q&A; and certificate distribution

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WHY THIS MATTERS

A missed conduit sleeve through a concrete slab costs four figures to core-drill after the pour. A missing blocking spec in a media wall means drywall comes down before the television goes up. These are not edge cases -- they are the default outcome when technology infrastructure is excluded from the CD set.

COURSE 03

Network Infrastructure for the Connected Home -- An Integrator's Perspective

AUDIENCE

Architects

CREDIT

AIA LU

LENGTH

60 min (lunch-and-learn) | 90 min (extended)

FORMAT

In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION

Every luxury home delivered today is a networked building -- and the architect's decisions about IDF/MDF location, conduit routing, and mechanical room adjacencies directly determine whether the network infrastructure can perform at enterprise grade. This course approaches residential networking from the design side, using enterprise-class Ubiquiti UISP/Pro architecture as the reference point. Attendees leave understanding what the integrator needs from the drawings, and why network infrastructure is a design discipline -- not a vendor problem.

LEARNING OBJECTIVES

At the end of this course, attendees will be able to:

- 01 Describe the functional difference between consumer-grade and enterprise-grade residential networking, and explain why the latter requires architectural accommodation.
- 02 Locate telecommunications rooms, equipment closets, and IDF/MDF spaces appropriately within a luxury residential floor plan, accounting for thermal load, access, and cable-run distances.
- 03 Specify minimum conduit infrastructure -- home-run pathways, horizontal distribution sleeves, and outdoor AP rough-ins -- at the CD phase.
- 04 Coordinate with the network/AV integrator on access point placement to avoid ceiling and wall conflicts with architectural finishes.

60-MINUTE OUTLINE

- 0:00-0:05 Welcome and learning objectives
- 0:05-0:18 What enterprise-grade residential networking looks like and why it matters (Ubiquiti UISP/Pro reference architecture)
- 0:18-0:32 Designing the right space: IDF placement, thermal load, and cable-run geometry
- 0:32-0:45 Access point placement, outdoor network rough-ins, and coordination with ceiling design
- 0:45-0:55 Case study: correct vs. incorrect IDF placement and its downstream consequences
- 0:55-1:00 Q&A; and certificate distribution

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WHY THIS MATTERS

An IDF placed against an exterior wall in a Florida room or adjacent to a boiler generates enough heat to shorten equipment life by years and voids manufacturer warranties. An access point blocked by an HVAC trunk means dead zones in the rooms owners use most -- and a retrofit that damages the ceiling finish the architect specified.

COURSE 04

Designing the Rack Room: Thermal, Acoustic, and Service Access

AUDIENCE	CREDIT	LENGTH
Architects	AIA LU	60 min (lunch-and-learn) 90 min (extended)

FORMAT
In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION
The equipment rack room -- often called the tech closet, IDF, or media room core -- is the building's central nervous system, and it is routinely under-designed at the schematic phase. Inadequate thermal management shortens equipment life. Poor acoustic isolation transmits fan noise into adjacent living spaces. Insufficient service clearance means the integrator cannot maintain the system without damaging finishes. This course gives architects a design template for sizing, locating, and detailing rack rooms in luxury residential and boutique hospitality projects.

- LEARNING OBJECTIVES
- At the end of this course, attendees will be able to:
- 01 Calculate minimum rack room square footage and ceiling height for a given project scope using equipment density and service access standards.
 - 02 Specify thermal management requirements -- dedicated HVAC, supplemental cooling, or passive ventilation -- based on rack heat load.
 - 03 Detail acoustic separation for rack rooms adjacent to bedrooms, home theaters, or primary living areas.
 - 04 Establish service access standards -- door clearance, front and rear rack access, and utility stub-out locations -- that allow the integrator to maintain the system without disturbing finish work.

- 60-MINUTE OUTLINE
- 0:00-0:05 Welcome and learning objectives
 - 0:05-0:18 Rack room typology: what goes in, how much space it takes, and why it grows during construction
 - 0:18-0:32 Thermal management: BTU load estimation, dedicated cooling, and HVAC coordination
 - 0:32-0:45 Acoustic isolation details for rack rooms adjacent to occupied space
 - 0:45-0:55 Service access, door sizing, raised flooring, and finish surface protection
 - 0:55-1:00 Q&A; and certificate distribution

PRESENTED BY
Mike Restrepo, Owner | Restrepo Innovations
Elite Pro Crestron Dealer | HTA Luxury Certified | OSHA Certified | Ubiquiti UISP/Pro Partner

WHY THIS MATTERS
A rack room specified at 4 ft x 4 ft for a 12,000 sq ft home will require a costly expansion before the system is commissioned. Equipment that overheats due to inadequate cooling generates service calls within the first year and can void manufacturer warranties -- costs that flow back to the GC and, ultimately, the owner.

COURSE 05

Daylighting and Automated Shading Integration

AUDIENCE

Architects

CREDIT

AIA HSW

LENGTH

60 min (lunch-and-learn) | 90 min
(extended)

FORMAT

In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION

Automated shading is not a convenience feature -- it is a daylighting control system, and it performs best when the architect has treated it as such from early design. This course covers the relationship between glazing area, solar orientation, shading specification, and lighting control -- addressing how each architectural decision constrains or enables what the shading system can achieve. The course is manufacturer-agnostic and covers the principles applicable to any automated roller, drapery, or exterior shading system.

LEARNING OBJECTIVES

At the end of this course, attendees will be able to:

- 01 Analyze glazing area and solar orientation to identify shading zones that require motorized control for occupant comfort and energy performance.
- 02 Specify rough-in requirements -- pocket dimensions, header blocking, conduit, and power locations -- for motorized roller shades, drapery systems, and exterior solar shades at the CD phase.
- 03 Describe how automated shading integrates with lighting control systems to achieve scene-based daylighting management.
- 04 Evaluate shading fabric openness factors and their effect on glare control, view preservation, and SHGC contribution.

HSW JUSTIFICATION

Daylighting directly affects occupant circadian health, visual comfort, and glare-related eye strain -- welfare criteria under AIA HSW guidelines. Automated shading systems that respond to solar position and interior lux levels have documented benefits for occupant health and building energy performance.

60-MINUTE OUTLINE

- 0:00-0:05 Welcome and learning objectives
- 0:05-0:18 Daylighting fundamentals: solar geometry, glazing performance, and the limits of passive design
- 0:18-0:32 Motorized shading systems: typology, rough-in requirements, and integration pathways
- 0:32-0:45 Lighting control integration: scene logic, daylight sensors, and circadian tuning
- 0:45-0:55 Case study: east-west glazing wall -- shading zoning and coordination decisions
- 0:55-1:00 Q&A; and certificate distribution

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WHY THIS MATTERS

A motorized shade pocket that is undersized by 2 inches cannot receive the specified fabric, and the correction requires a structural header modification after framing is complete. Shading systems that are not coordinated with lighting control at design development frequently produce conflicting scenes -- an owner experience that reflects directly on the architect of record.

COURSE 06

Hidden Technology: Architectural AV in Refined Interiors

AUDIENCE	CREDIT	LENGTH
Interior Designers	IDCEC	60 min (lunch-and-learn) or 90 min (extended)

FORMAT
In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION
The best technology in a luxury interior is the technology you cannot see. This course introduces interior designers to the category of architectural AV -- in-wall and in-ceiling speakers, disappearing displays, recessed keypads, and invisible control surfaces -- that allows technology to serve the space rather than compete with it. Attendees leave with a vocabulary for specifying architectural AV and a workflow for coordinating with the technology integrator during the interior design phase.

- LEARNING OBJECTIVES
- At the end of this course, attendees will be able to:
- 01 Identify the primary categories of architectural AV products -- in-ceiling speakers, on-wall art-frame displays, recessed control surfaces -- and explain where each is appropriate in a refined interior.
 - 02 Coordinate with the technology integrator at the material selection phase to confirm that specified finishes, trim profiles, and millwork are compatible with architectural AV product requirements.
 - 03 Specify blocking, rough-in, and finish-surface requirements for recessed speakers, hidden displays, and flush-mount control devices.
 - 04 Evaluate product cut sheets for architectural AV devices to assess finish quality, trim options, and surface preparation requirements.

- 60-MINUTE OUTLINE
- 0:00-0:05 Welcome and learning objectives
 - 0:05-0:18 The vocabulary of architectural AV: product categories, performance tiers, and finish grades
 - 0:18-0:32 Coordination workflow: when to engage the integrator and what information to exchange
 - 0:32-0:45 Millwork, trim, and surface details: what the designer controls and what must be pre-coordinated
 - 0:45-0:55 Product review: representative architectural AV products across display, audio, and control categories
 - 0:55-1:00 Q&A; and certificate distribution

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Elite Pro Crestron Dealer | HTA Luxury Certified | OSHA Certified | Ubiquiti UISP/Pro Partner

WHY THIS MATTERS
A television that arrives on-site after millwork is built and exceeds the cavity dimensions by 1.5 inches is a problem with no good solution. A control keypad specified in a wrong gang configuration requires a new rough-in box and wall repair. These conflicts are prevented when the designer and integrator are sharing drawings -- not just talking about the project.

COURSE 07

Specifying Audio That Disappears

AUDIENCE	CREDIT	LENGTH
Interior Designers	IDCEC	60 min (lunch-and-learn) or 90 min (extended)

FORMAT
In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION
Distributed audio in a luxury interior should be heard, not seen -- and certainly not dominate the ceiling plane. This course covers the full spectrum of architectural audio approaches, from traditional in-ceiling speakers to on-wall architectural panels, plaster-over drivers, and invisible audio transducers embedded in surfaces. Attendees develop the design judgment to match the right audio approach to the ceiling type, room use, and finish intent, and they leave understanding what rough-in decisions must be locked before drywall.

- LEARNING OBJECTIVES
- At the end of this course, attendees will be able to:
- 01 Compare in-ceiling, on-wall, plaster-over, and invisible audio technologies and identify appropriate applications for each in a luxury residential or hospitality interior.
 - 02 Describe the design constraints -- ceiling height, material, HVAC layout, and beam placement -- that affect speaker placement and performance.
 - 03 Specify paint, plaster, and finish requirements for speakers and grilles that are intended to disappear into the ceiling or wall plane.
 - 04 Identify the rough-in decisions -- box location, backing board, conduit stub-out -- that must be made before drywall to avoid remediation.

- 60-MINUTE OUTLINE
- 0:00-0:05 Welcome and learning objectives
 - 0:05-0:18 Audio typology: in-ceiling, architectural panel, plaster-over, and invisible transducer systems
 - 0:18-0:32 Placement principles: coverage, ceiling conditions, and the geometry of listening zones
 - 0:32-0:45 Finish coordination: paint, plaster, fabric, and grille specification
 - 0:45-0:55 Case study: great room with coffered ceiling -- speaker layout coordination from design to install
 - 0:55-1:00 Q&A; and certificate distribution

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WHY THIS MATTERS
A speaker that is 3 inches off its intended location because the rough-in was placed without reference to the ceiling coffer pattern is a visible problem -- one the designer and owner will notice every day. Finish-painted grilles that are primed but not top-coated, or plaster-over speakers that receive the wrong compound, produce callbacks that no one budgeted for.

COURSE 08

Lighting Layers for Mood and Function

AUDIENCE	CREDIT	LENGTH
Interior Designers	IDCEC	60 min (lunch-and-learn) or 90 min (extended)

FORMAT
In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION
Lighting design in a luxury interior is a layered discipline -- ambient, task, accent, and decorative sources each serve a distinct function, and the quality of the result depends on how those layers interact under control. This course gives interior designers a structural framework for lighting layering and connects that framework to the control systems that activate it. The course is manufacturer-agnostic and covers principles applicable across any lighting control platform.

- LEARNING OBJECTIVES
- At the end of this course, attendees will be able to:
- 01 Define the four layers of interior lighting -- ambient, task, accent, and decorative -- and explain the functional role of each in a luxury residential or hospitality space.
 - 02 Specify fixture types, placement, and beam angles appropriate to each lighting layer in a given room typology.
 - 03 Describe how scene-based lighting control translates a layered lighting design into programmable occupant experiences.
 - 04 Identify coordination points between the lighting designer, interior designer, and technology integrator that must be resolved at the CD phase.

- 60-MINUTE OUTLINE
- 0:00-0:05 Welcome and learning objectives
 - 0:05-0:18 The four layers: ambient, task, accent, and decorative -- definitions and design intent
 - 0:18-0:32 Fixture selection and placement: beam angle, CRI, color temperature, and dimming compatibility
 - 0:32-0:45 Control integration: scenes, dimmers, occupancy, and daylight response
 - 0:45-0:55 Case study: primary suite -- full lighting layer buildout and scene programming
 - 0:55-1:00 Q&A; and certificate distribution

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WHY THIS MATTERS
A beautifully specified fixture package that cannot be controlled independently -- because all circuits share a dimmer -- collapses the design intent to a single flat state. Fixtures that are not specified for dimmer compatibility produce flicker, buzz, or early failure when placed on a lighting control system -- a callback that arrives within weeks of move-in.

COURSE 09

The Theater Room Reimagined

AUDIENCE	CREDIT	LENGTH
Interior Designers	IDCEC	90 min (extended) 60 min (abbreviated)
FORMAT		
In-person, lunch provided Virtual via Zoom On-site at jobsite		

DESCRIPTION

The dedicated home theater has evolved from a dark basement room into one of the highest-expression spaces in luxury residential design. This course examines the design elements that define a contemporary theater room -- acoustic treatment as architecture, lighting as scene design, seating geometry, and the integration of projection, display, and audio infrastructure behind refined surfaces. Attendees leave with a design framework that treats the theater room as an interior design problem first and a technology problem second.

LEARNING OBJECTIVES

At the end of this course, attendees will be able to:

- 01 Describe the acoustic principles -- absorption, diffusion, and isolation -- that govern the design of a dedicated theater room, and identify how interior finish choices reinforce or undermine those principles.
- 02 Specify the structural and rough-in requirements -- screen wall blocking, projector ceiling mount backing, acoustic panel backing, riser framing -- that must be coordinated before framing is complete.
- 03 Select seating geometry configurations appropriate to room dimensions and projection throw distance.
- 04 Design a theater room lighting scheme -- bias lighting, aisle lighting, sconce integration, and scene control -- that supports both performance viewing and social use of the space.

60-MINUTE OUTLINE

- 0:00-0:05 Welcome and learning objectives
- 0:05-0:20 Theater room typology: home cinema vs. media lounge vs. screening room -- and when each is right
- 0:20-0:35 Acoustic treatment as design: wall panels, ceiling clouds, flooring, and their finish implications
- 0:35-0:50 Infrastructure coordination: screen wall, projection, seating riser, and lighting rough-in requirements
- 0:50-1:00 Q&A; and certificate distribution

PRESENTED BY

Mike Restrepo, Owner | Restrepo Innovations

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WHY THIS MATTERS

A projector screen that cannot be flush-mounted because the backing was omitted is a visible seam in the design. A seating riser framed to the wrong height -- because the integrator's seating geometry was never shared -- means the back row has an obstructed sightline in a room the owner spent six figures to build.

COURSE 10

Color Temperature and Material Specification

AUDIENCE	CREDIT	LENGTH
Interior Designers	IDCEC	60 min (lunch-and-learn) or 90 min (extended)

FORMAT
In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION
A stone slab selected under daylight reads entirely differently once the room is lit at 2700K -- and a fabric chosen from a sample board can shift two tones under a 3500K source. This course gives interior designers a working framework for evaluating material selections under the actual light sources that will illuminate them, and for communicating color temperature requirements to the integrator and electrical team before fixtures are purchased. Attendees leave with a specification discipline that closes the gap between the design intent and the delivered interior.

- LEARNING OBJECTIVES
- At the end of this course, attendees will be able to:
- 01 Explain how correlated color temperature (CCT) -- ranging from warm 2700K to neutral 3500K to tunable white -- affects the perceived tone, saturation, and warmth of stone, fabric, wood, and painted surfaces.
 - 02 Develop a material review protocol that evaluates finish samples under the specified CCT of the room's primary light source before purchase orders are placed.
 - 03 Describe how tunable white lighting systems allow a single fixture to shift across the CCT spectrum, and identify the design scenarios where tunability is a specification requirement rather than a luxury.
 - 04 Communicate color temperature requirements to the technology integrator and lighting control programmer so that scene presets reflect the designer's material and mood intent.

- 60-MINUTE OUTLINE
- 0:00-0:05 Welcome and learning objectives
 - 0:05-0:20 CCT fundamentals: what 2700K, 3000K, 3500K, and tunable white actually mean for surfaces and materials
 - 0:20-0:35 Material review under light: stone, fabric, wood, and paint -- what shifts and why
 - 0:35-0:50 Tunable white systems: where they are essential and how to specify them at the design development phase
 - 0:50-1:00 Q&A; and certificate distribution

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WHY THIS MATTERS
A material specification locked in at a showroom under incorrect light sources is a liability -- one that surfaces at punch list when the owner sees the finished room for the first time. Correcting a fixture CCT after installation requires re-ordering lamps or replacing fixtures, and correcting a material selection after fabrication is frequently not an option at all.

COURSE 11

The Aesthetic Audit: Cleaning Up Tech in an Existing Home

AUDIENCE

Interior Designers

CREDIT

IDCEC

LENGTH

60 min (lunch-and-learn) or 90 min (extended)

FORMAT

In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION

Designers taking on a refresh or renovation frequently inherit a home that has accumulated years of technology decisions made without design input -- universal remotes, dead zones, abandoned wiring, mismatched in-wall speakers, and keypads that belong to systems no longer in service. This course is a structured methodology for auditing existing technology, deciding what to remove, what to relocate, and what to disguise, and communicating those decisions to the integrator as a defined scope. Before-and-after walk-throughs illustrate how the audit process translates into a cleaner, more resolved interior.

LEARNING OBJECTIVES

At the end of this course, attendees will be able to:

- 01 Conduct a technology audit of an existing home -- cataloging active, inactive, and legacy devices -- and produce a disposition matrix that classifies each item for removal, relocation, concealment, or replacement.
- 02 Identify concealment strategies for in-wall and surface-mounted technology -- custom millwork surrounds, grille fabric panels, flush-mount trim kits -- appropriate to the existing interior's style and finish level.
- 03 Evaluate existing structured cabling and wireless infrastructure to determine what can be retained, extended, or must be replaced to support the design program.
- 04 Develop a technology refresh scope document that gives the integrator clear direction and protects the designer from scope creep during construction.

60-MINUTE OUTLINE

- 0:00-0:05 Welcome and learning objectives
- 0:05-0:20 The legacy technology problem: what designers typically find and why it happened
- 0:20-0:35 The audit methodology: device inventory, condition assessment, and disposition classification
- 0:35-0:50 Before-and-after walk-throughs: how audit decisions translate into design outcomes
- 0:50-1:00 Q&A; and certificate distribution

PRESENTED BY

Mike Restrepo, Owner | Restrepo Innovations

Elite Pro Crestron Dealer | HTA Luxury Certified | OSHA Certified | Ubiquiti UISP/Pro Partner

WHY THIS MATTERS

A renovation that resolves the interior design but leaves the technology layer unchanged delivers a finished room with a 2012 remote sitting on the coffee table. The technology audit is not an optional step -- it is the foundation of a renovation scope, and skipping it means inheriting the previous owner's decisions as permanent features of the new design.

COURSE 12

Designing for the Camera: Homes That Photograph Well at Night

AUDIENCE

Interior Designers

CREDIT

IDCEC

LENGTH

60 min (lunch-and-learn) or 90 min (extended)

FORMAT

In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION

Architectural photography -- particularly nighttime exterior and interior dusk shots -- rewards homes where the lighting layers are precisely controlled and the landscape is integrated into a unified composition. This course examines how landscape lighting design, interior accent layers, dimming curves, and automation scenes work together to produce images that read well in publication. Attendees leave with a lighting specification and programming framework designed to support photography sessions and editorial submissions.

LEARNING OBJECTIVES

At the end of this course, attendees will be able to:

- 01 Identify the landscape lighting strategies -- uplighting, path illumination, water feature integration, and facade wash -- that create depth, separation, and visual hierarchy in nighttime architectural photography.
- 02 Specify interior accent and task lighting levels, dimming curves, and color temperatures that translate well to camera sensors at dusk and after dark.
- 03 Describe how scene-based automation allows a photographer to recall a precisely calibrated lighting state -- eliminating improvised adjustments on shoot day and ensuring consistency across multiple sessions.
- 04 Develop a photography scene specification for the integrator that includes interior, landscape, and transitional dusk presets tuned for the target publication format.

60-MINUTE OUTLINE

- 0:00-0:05 Welcome and learning objectives
- 0:05-0:20 How cameras see light differently: exposure, dynamic range, and the common failure modes in architectural photography
- 0:20-0:35 Landscape lighting for the camera: uplighting geometry, facade wash levels, and water feature integration
- 0:35-0:50 Interior scene programming for photography: dimming curves, accent ratios, and color temperature targets
- 0:50-1:00 Q&A; and certificate distribution

PRESENTED BY

Mike Restrepo, Owner | Restrepo Innovations

Elite Pro Crestron Dealer | HTA Luxury Certified | OSHA Certified | Ubiquiti UISP/Pro Partner

WHY THIS MATTERS

A home that reads flat in photography -- because the lighting was not calibrated for the camera -- forfeits publication opportunities in AD, Elle Decor, Luxe, House Beautiful, and Veranda. Lighting that is improvised on shoot day produces inconsistent results across sessions and requires the photographer to compensate in post-production, which rarely recovers what a well-programmed scene delivers in-camera.

COURSE 13

Acoustic Treatment That Looks Like Art

AUDIENCE

Interior Designers

CREDIT

IDCEC

LENGTH

60 min (lunch-and-learn) or 90 min (extended)

FORMAT

In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION

Acoustic treatment is a performance requirement in theater rooms, great rooms, and open-plan luxury homes -- but it does not have to look like a recording studio. This course examines the category of architectural acoustic products that function as design elements: fabric-wrapped panels in custom dimensions and colorways, perforated millwork that doubles as cabinetry, and diffuser surfaces treated as sculptural wall composition. Attendees leave with a specification framework that addresses acoustic performance without compromising the interior design intent.

LEARNING OBJECTIVES

At the end of this course, attendees will be able to:

- 01 Identify the acoustic functions -- absorption, diffusion, and reflection control -- that designer-specified panels, millwork, and wall compositions can fulfill in luxury residential spaces.
- 02 Select and specify fabric-wrapped acoustic panels in custom dimensions, mounting configurations, and designer-approved fabric grades appropriate to the room's finish level.
- 03 Evaluate perforated millwork and sculptural diffuser options for their acoustic performance parameters alongside their design contribution.
- 04 Apply acoustic treatment specifications to theater rooms, great rooms, and open-plan spaces in ways that address speech privacy, noise control, and occupant comfort as design objectives.

HSW JUSTIFICATION

Acoustic performance in occupied spaces has documented effects on occupant wellness -- including speech privacy, cognitive performance under ambient noise, and stress response to reflected sound. Properly specified acoustic treatment in great rooms and open-plan luxury homes addresses noise control and speech privacy criteria that align with occupant health and welfare considerations.

60-MINUTE OUTLINE

- 0:00-0:05 Welcome and learning objectives
- 0:05-0:20 Acoustic fundamentals for designers: what absorption, diffusion, and reflection control mean for room performance and occupant experience
- 0:20-0:35 Fabric panels, perforated millwork, and diffusers as design elements: product typology, custom specification, and finish options
- 0:35-0:50 Application by room type: theater rooms, great rooms, and open-plan luxury homes -- treatment strategies and case examples
- 0:50-1:00 Q&A; and certificate distribution

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WHY THIS MATTERS

A great room with no acoustic treatment and 22-foot ceilings delivers a reverberant, fatiguing environment regardless of how refined the furnishings are. Acoustic panels added after construction as a remediation measure are rarely positioned correctly and are almost never sized or finished to the standard of the original interior -- making early specification the only path to a result the designer can stand behind.

COURSE 14

Sequencing the Tech Trade: When to Bring the Integrator In

AUDIENCE

Builders / General Contractors

CREDIT

General CEU

LENGTH

60 min (lunch-and-learn) | 90 min (extended)

FORMAT

In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION

Technology integration is the one trade that touches every other trade on a luxury residential project -- and it is almost always the last trade to be contracted and the first to be blamed when something is missing. This course gives builders and GCs a sequencing framework for the technology trade that aligns integration milestones with the standard construction schedule, reducing change orders, callbacks, and schedule slippage at substantial completion.

LEARNING OBJECTIVES

At the end of this course, attendees will be able to:

- 01 Identify the five construction milestones at which technology integrator coordination is required -- from pre-permit through commissioning -- and describe the deliverable required at each.
- 02 Sequence low-voltage rough-in relative to electrical rough-in, framing inspection, and insulation to avoid schedule conflicts and rework.
- 03 Establish a technology coordination checklist appropriate for inclusion in the GC's project management workflow.
- 04 Define the scope boundary between the electrical contractor and the technology integrator for common scope overlap areas -- panels, conduit, outlet placement, and structured cabling.

60-MINUTE OUTLINE

- 0:00-0:05 Welcome and learning objectives
- 0:05-0:18 The technology trade in context: who the integrator is, what they own, and when they show up today vs. when they should
- 0:18-0:32 The five milestone framework: pre-permit, framing, rough-in, pre-drywall, and commissioning
- 0:32-0:45 Scope boundary management: electrical vs. low-voltage, and how to prevent gaps
- 0:45-0:55 Case study: two projects -- one sequenced correctly, one not -- and the cost difference at close
- 0:55-1:00 Q&A; and certificate distribution

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WHY THIS MATTERS

A technology integrator who is engaged after drywall is hung cannot fix what was missed -- they can only work around it, and the workarounds are visible and expensive. The most common source of owner dissatisfaction at move-in is not a failed device -- it is a conduit that was never run, a blocking that was never specified, or a scope gap between two trades that no one owned.

COURSE 15

Coordinating Electrical, Lighting Control, and Low-Voltage

AUDIENCE	CREDIT	LENGTH
Builders / General Contractors	General CEU	60 min (lunch-and-learn) 90 min (extended)

FORMAT
In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION
On a luxury residential project, the electrical contractor, lighting control integrator, and low-voltage integrator each carry portions of an interconnected system -- and the seams between their scopes are where projects fail. This course maps the coordination touchpoints between all three trades, giving GCs and builders a shared framework for managing scope, schedule, and documentation across the electrical and low-voltage site work.

- LEARNING OBJECTIVES
- At the end of this course, attendees will be able to:
- 01 Describe the distinct scopes of the electrical contractor, lighting control integrator, and low-voltage integrator, and identify the coordination documents required to manage their interfaces.
 - 02 Specify the electrical prerequisites -- dedicated circuits, home-run circuit labeling, neutral wire requirements, and load calculations -- that must be in place before lighting control commissioning can begin.
 - 03 Establish a pre-rough-in coordination meeting agenda that aligns all three trades on box locations, conduit routing, and panel scheduling.
 - 04 Identify the most common scope gaps between trades -- conduit termination ownership, device trim installation, and network power (PoE) provisioning -- and assign clear responsibility in the project scope documents.

- 60-MINUTE OUTLINE
- 0:00-0:05 Welcome and learning objectives
 - 0:05-0:18 Scope map: what the electrician owns, what the low-voltage integrator owns, and where they overlap
 - 0:18-0:32 Electrical prerequisites for lighting control: load wire, neutrals, panel labeling, and dedicated circuits
 - 0:32-0:45 The pre-rough-in coordination meeting: agenda, attendees, and the drawings that must be in the room
 - 0:45-0:55 Case study: scope gap at the wall switch -- who installs the keypad and who terminates the wire
 - 0:55-1:00 Q&A; and certificate distribution

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WHY THIS MATTERS
A lighting control system that cannot be commissioned because the neutral wires were omitted from the switch legs -- a common electrical rough-in error on older-practice projects -- requires a panel change and re-pull of switch circuits throughout the home. The cost is borne by the GC, and the delay pushes commissioning past the owner's move-in date.

COURSE 16

Substantial Completion vs. Tech Commissioning

AUDIENCE

Builders / General Contractors

CREDIT

General CEU

LENGTH

60 min (lunch-and-learn) | 90 min (extended)

FORMAT

In-person, lunch provided | Virtual via Zoom | On-site at jobsite

DESCRIPTION

Substantial completion is a construction milestone. Technology commissioning is a separate process that requires a stable building environment -- reliable power, finished network infrastructure, climate control, and clean wall surfaces -- to execute. This course clarifies the relationship between those two milestones, explains what the technology integrator needs from the building before commissioning can begin, and gives GCs a framework for scheduling the commissioning phase without compressing it into the final week before occupancy.

LEARNING OBJECTIVES

At the end of this course, attendees will be able to:

- 01 Define technology commissioning and distinguish it from punch-list completion, device installation, and system testing.
- 02 Identify the building conditions -- power stability, network termination, HVAC operation, and wall surface completion -- that must be present before technology commissioning can begin.
- 03 Build a commissioning phase into the project schedule that provides adequate time for programming, testing, owner training, and punch resolution without compressing against the occupancy date.
- 04 Establish a technology commissioning acceptance protocol -- including sign-off criteria, owner training documentation, and warranty trigger -- that protects both the GC and the integrator at project close.

60-MINUTE OUTLINE

- 0:00-0:05 Welcome and learning objectives
- 0:05-0:18 What commissioning actually is: programming, testing, integration, calibration, and training
- 0:18-0:32 Building prerequisites for commissioning: the checklist the integrator hands to the GC
- 0:32-0:45 Scheduling the commissioning phase: how long it takes, what compresses it, and what the consequences are
- 0:45-0:55 Case study: commissioning compressed into four days before owner move-in -- what failed and why
- 0:55-1:00 Q&A; and certificate distribution

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WHY THIS MATTERS

A technology system that is programmed and tested under construction-site conditions -- unstable power, missing network terminations, rooms still being painted -- will have failures at move-in that are experienced as the integrator's fault, regardless of cause. Owner training conducted in a two-hour window on move-in day produces owners who do not know how to use the system they paid for, and service calls begin within the week.

PARTNERSHIP CATALOG

Co-Presented Courses

The following eight courses are co-presented with manufacturer representatives and industry partners. Scheduling and credit details are coordinated directly through Restrepo Innovations.

COURSE	CO-PRESENTER
Lutron 2026 (7 AIA courses)	Reilly Ward (residential) + Christine Ramirez (commercial)
Crestron Residential Design Meets Tech	Jay Minsky
Crestron Motorized Shading Fundamentals	Jay Minsky
Ketra Tunable White Lighting	Lutron Ketra rep
Coastal Source Outdoor Audio	Mike Pawlowski (Atlantic Integrated)
Marvin Window Integration with Shading	Elliot Rivera
Screen Innovations Outdoor + Bezel-less Displays	Ryan Gustafson
Trufig Hidden Mounting and Architectural Integration	Brett Alejo

BOOK A SESSION

Schedule a Lunch and Learn

All courses are presented by Mike Restrepo at no speaking fee within the Restrepo Innovations service area. Lunch can be arranged at the host firm or studio for in-person sessions. Virtual sessions are delivered via Zoom with the same outline and learning objectives. Sessions can also be delivered on-site at an active project for design teams who want to walk the conditions in real time.

PHONE

201.405.2022

EMAIL

mike@
restrepoinnovations.com

OFFICE

599 Franklin Ave
Franklin Lakes, NJ 07417

Service area: Northern New Jersey -- Bergen, Essex, Morris, Passaic, Hudson counties and the luxury markets of Alpine, Saddle River, Tenafly, Short Hills, and Montclair. Connecticut -- Fairfield and Litchfield counties. New York spillover -- Westchester, Manhattan, and the Hamptons.

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