

Electronic Lifestyles[®]

Exclusive Publication of the Custom Electronic Design & Installation Association

WINTER 2011

CEDIA

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18th

Annual Electronic Lifestyles[®] Designer Awards +

Sustainable Lifestyles & Energy Management:
The Products, The Initiatives, What You Need To Know
The Future of Technology in the Home Revealed

ElectronicLifestyles

Exclusive Publication of the 2009 CEDIA Electronic Lifestyles® Designer Awards

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BRONZE technical design Large Home Theater, \$400K - \$530K



Family Fun

Powerhouse theater coexists seamlessly with home.

This 15-seat theater was conceived as the centerpiece of a new home construction, to serve as the primary space for family gatherings and entertaining guests. The homeowner wanted a space where he and his several children could enjoy a state-of-the-art theater experience without disturbing the peace and quiet of the rest of the home. Electronics Design Group began acoustic planning on the theater before the builders even broke ground on the house, so the theater lighting and HVAC controls could be integrated into the whole-house control system.

The room's warm, inviting atmosphere belies its technical prowess. In fact, it features the latest in projection technology, including a 164-inch 2.35:1 Stewart CineWide FireHawk screen for a cinematic presentation, along with a 3-chip 1080p Digital Projection Titan projector.

The theater uses Rotel separates and B&W CT series speakers, and the sound quality is fine-tuned with a Binary Amplitude Diffuser (BAD) system and acoustical paneling from RPG Diffuser Systems.

EDG's greatest challenge was to create a visually impactful and aesthetically pleasing transition from the basement to the sub-basement where the theater is located. "The complexity of this transition required a great deal of design and layout in the field, where technicians measured sight lines and taped out the basic configuration of the descending stairs," says the company. "The theater maximizes its 'wow' factor by positioning the screen opposite the entrance, so that moviegoers are greeted by an HD image." ■

■ equipment Contact the CEDIA ESC for a complete equipment list.

Apple Mac Mini, AppleTV; **B&W** SA1000 Subwoofer Amp, ASW608 Powered Sub (2), CT 7.3 LCR Speakers (3), CT 7.5 LCR Speakers (6), CT SW12 Subwoofer (2); **Crestron** TPMC-8X Wireless Touchscreen, TPMC-8X-DS Docking Station, CEN-IDOC iPod Interface, CNX-VID Video Distribution Switch, CNPWS-300 Power Supply, CNRFGWA-418 RF Receiver, CNXRMC1V Room Interface, STCOM RS232 Expansion Block; **Digital Projection** Theaterscope Anamorphic Lens, VIP 2000 Video Processor, Titan 250 Projector; **Furman** Elite-15PFI Power Conditioner (2); **Intelix** AVO A2 Balun (2); **Kaleidescape** KPlayer-6000 Movie Player

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■ time and expertise

Client Interviews	60
Electronic Design and Engineering	75
Proposal and System Documentation Preparation	48
Project Management	80
Pre-wire/Rough-in	36
Trim-out	36
Shop Time for Racking and Testing	32
Programming	32
Final Installation and Calibration	144
Client Instruction	12
Interior Design and/or Architecture by your Company	24
Interior Design and/or Architecture by Others	40
Project Management by Others	120

Total Hours to Complete: 739



Form & Function

Turning “madness” into spectacular

Forget the popcorn machines and velvet curtains; the goal of this theater design was to turn a dilapidated, unfurnished basement into a useable high-tech family space suitable for viewing DVDs, Blu-ray discs and Web content, and playing video games.

Of course, arriving at such a beautiful form was not all wine and roses for Electronics Design Group. The space designated for the project was an unconventional 11 feet wide, 17 feet long, and 7 feet high. These dimensions complicated both the projector placement and the audio-engineering process. In this case, a projector could not be fastened to the ceiling, due to the low room height. Additionally, the chosen Runco Video Xtreme VX-2cx Projector had a throw distance that prohibited placement in the back of the room.

During the installation process, however, as a result of consultation with the designer, the homeowner decided to upgrade to a 1080p Runco VX-22d—a new model released during the build. The longer throw distance of this model allowed the projector to be housed in a separate enclosure in the back of the room, contributing to the clean, futuristic aesthetic of the final theater. Since there wasn't enough height to install tiered seating, the homeowners chose the next best thing: comfy pod-shaped gamer seats.

“To build a theater under such stringent space constraints would seem like madness if the results weren't so breathtakingly powerful,” says Electronics Design Group. “Given the low ceiling, there was absolutely zero room for error in the design and installation process.” ■

■ equipment Contact the CEDIA ESC for a complete equipment list.

Crestron CNPWS-75 Power Supply, CP-2E Control Processor, CNRFGWA-418 RF Receiver, CLS-C6 Lighting System, BNX-B8 Keypad (2); **Genelec** RAM2 AIW25 Amplifiers AIW25 Speakers (7), HTS3b Subwoofer; **Key Digital** KD-CSW Audio/Video Switch; **Lexicon** MC-8 BAL Processor; **Middle Atlantic** ERK-3525 Rack, CBS-ERK-25 Rack Base; **Netgear** EVA8000 Receiver; **Runco** Vivix DHD Vivix Processor, VX22d Projector; **Sony** BDPS500 Blu-ray; **Toshiba** XA2 DVD Player; **Tiverton** Client Supplied; **Xantech** CB18

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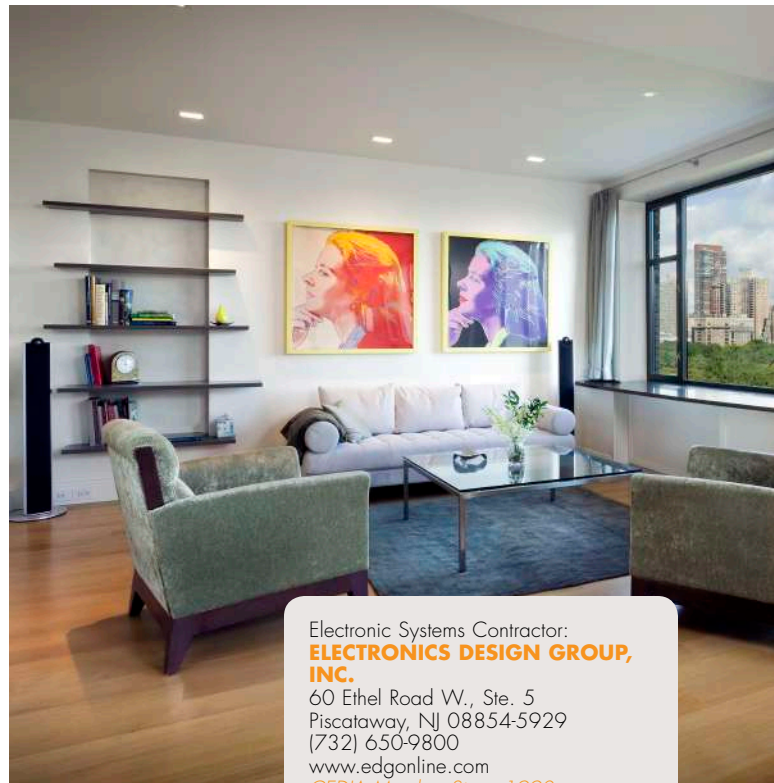
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MDK Contracting
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■ time and expertise

Client Interviews	18
Electronic Design and Engineering	19
Proposal and System Documentation Preparation	8
Project Management	19
Pre-wire/Rough-in	12
Trim-out	8
Shop Time for Racking and Testing	22
Programming	20
Final Installation and Calibration	88
Client Instruction	2
Interior Design and/or Architecture by Others	10

Total Hours to Complete: **226**



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Packing In the Technology

Electronics Design Group constructs a hidden wonder.

Electronics Design Group included a surprisingly large amount of equipment in a very small space—just 1,000 square feet. Add to that the invisibility of the technology and that the project was pulled in on a tight budget, and you have a pretty impressive installation.

The company was able to integrate all sub-systems—the multi-room music system, video, lighting and HVAC—into the home without detracting from the aesthetic value of the space. Electronics Design Group also made a huge number of lighting loads completely invisible through the innovative thinking of its installation team. “The apartment space was limited and we had to be creative about where large banks of dimmers and switches were placed,” says the company. “Small cabinets were used to hide some and we even used a space behind the pull-out rack to bank a large number of lighting loads that feed more discrete six-button switches that can be more easily hidden from view.”

Audiophile-grade sound quality dictated serious speaker quality, which was the reason Electronics Design Group used the floor-standing B&W XT8s in the listening room. Aside from these breathtaking speakers, all other audio equipment was kept hidden with in-wall and in-ceiling speakers, and equipment banked in the hidden rack.

The Control4 system also allowed Electronics Design Group to offer the client total control over the lighting programming. “We provided the client with the Composer Home Edition Software so that he could tweak the lighting system to his liking,” says the company. “Which is exactly what he wanted.” ■



time and expertise

Client Interviews	24
Electronic Design and Engineering	36
Proposal and System	
Documentation Preparation	16
Project Management	40
Pre-wire/Rough-in	30
Trim-out	30
Shop Time for Racking and Testing	18
Programming	18
Final Installation and Calibration	44
Client Instruction	4
Interior Design and/or	
Architecture by Others	16
Other time	25
Describe Task Network Service	

Total Hours to Complete: 301

equipment *Contact the CEDIA ESC for a complete equipment list.*

Control4 C4-HC500-E-B Controller, C4-HC300-E-B Controller, C4-16AMP3-B Amp, AVM-TUN1-B Tuner, LDZ-102W Dimmers (42), KPZ-6B1-W Keypads (12), C4-TSWM7-E-B Touchscreens (4), C4-TSM7-G-B Touchscreen, SR-250 Remote Control; **Integra** DTR-7.8 Receiver, CDC-3.4 CD Player; **Intelix** AVO-V3HDF Balun (2); **Sonance** FS-4 iPod Dock, iPort Wall Plate, 423M Speakers (2); **Sony** BDPS500 Blu-Ray, KDL46XBR9 Display; **Leon** HZ515-LCR-A-46 Custom LCR (3); **Triad** In-Wall Bronze/6 Subwoofer (2), In-Wall Bronze/4 Subwoofer, 300DSP Subwoofer Amplifier; **SpeakerCraft** AIM7 Three Speaker (2), Accufit CRS7 Three Speaker (4)