Architectural Visualization with AI: A Hands-On Workshop

WE121 June 4, 2025 1:00 pm – 3:30 pm 2.5 RIBA/LU

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Publications & Conferences

- 2025 Fast Company Magazine The Invisible Future of Healthcare
- 2025 PDC Forum Principles of Healthcare Futurism
- 2025 AUGIWORLD Magazine Beyond Plan, Section & Elevation
- 2024 World Business Forum Keynote Address
- 2024 Healthcare Design Magazine Breaking Through
- 2024 Healthcare Design Conference Breaking Through Finale Keynote
- 2024 Delve Magazine Healthcare's New Wave
- 2024 Delve Conference Keynote Address

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Slide 7	Learning Objectives Participants will receive an overview of the landscape of Al tools available to architects today. We will compare the advantages of different text to image" tools Midjourney, DALL-E, and Stable Difficultions and "image to video" tools like Runway, Kling, and Lurna. Participants will gain a clear understanding of how Al can be integrated into a design process; including visioning, concept design, rapid protopying, and story telling. Participants will gain live experience with Al image and video tools as the attendees of the workshop collaboratively produce a shared design concept. Attendees will experiment individually at each step, then share results while discussing tips and tricks. Participants will see examples of competition level Al image and video content produced by the speakers and discuss a range of possible applications for technology.	
Slide 8	AIA25 Agenda Presentation: "Architectural Visualization with AI" (30 min) Workshop 1: Mood Board Concept Renderings (55 min) Workshop 2: Storytelling with Animation (55 min) Report-out: Review of Audience Work (10 min)	
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Runway: (image to animation) https://runwayml.com/

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	Architectural Visualization	
	With Artificial Intelligence	
Slide 11	AIA25 Control	
	Design Presentations Will Never Be The Same	
	What tools do designers have?	
	To establish context: Site Plan, Physical Models To communicate ideas: Concept, Parti Diagrams	
	To convey feeling: Rendering, Vignettes, Visioning Boards To address details: Plan, Section & Elevation	
	all to prove your design does what you say it does.	
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Slide 12	AIA25 Common	
	Design Is Sales	
	OK, fine. But are these media effective to communicate with • Physicians and Care Providers	
	Business Owners Investors or Accountants	
	Government Employees	
	Educators and Administrators when the only goal is to tell a convincing story?	

AIA25 **Late To The Narrative Party** Investing in curated visual content like animations and character-driven narrative has been cost prohibitive for architects (among other designers) until now, that is. The barriers to entry are crumbling, and designers should sit up and pay attention to the new altmedia landscape. TIME

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Architects As Directors

How is generative Al video different from a rendered walkthrough?

Evokes emotion using:

camera effects

dynamic lighting

facial expressions

sound effects and music



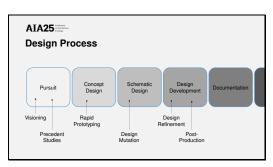
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Slide 17 AIA25 Expanded Relevance The average American adult in 2025 is forecast to spend 2 hours and 55 minutes each day watching television... ... and 0 minutes looking at floor plans. Typical conventions of the medium are universally understood by the general population. The practice and parlance of cinematography will become a valuable skillest for creating design content that is easily understood by a wide audience. AIA25 The Future Of Representation Passing fad or new expectations? AI representation may heighten emotional response Physical models are still effective for the exact same reason: experiential information is intuitive Can't put Al "back in the box" Competitive benefits for those who adopt quickly Start experimenting, we're eager to see what you can do.

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Current Lai	ndscape: S	o. Many. Pro	grams.
Conversational	Text to Image	Image to Video	Speech
ChatGPT Open Al	Midjourney	Runway ML	PlayHT
Copilot Microsoft	Dall-E Open Al	Veo Google	ElevenLabs
Gemini Google	Firefly Adobe	Sora Open Al	Gemini Google
Claude	Rendair	Kling	Azure Microsoft
Perplexity	Stable Diffusion	Minimax	Music
Jasper	Leonardo	Synthesia	Suno
Replika	Runway ML	Luma	Udio



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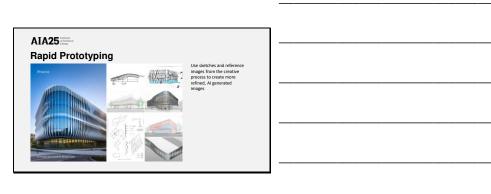




Precedent Studies Midjourney prompt: imagine a contemporary large pharmaceutical research facility as woman is greeting a group of children walking in the foregrour - ar 16:9 #Reference Image (image credit: West,Mharfred)

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AIA25 Design Mutation
create quick variations on a theme or concept for the design team's consideration (midjourney variation – strong)

Slide 26



Slide 29

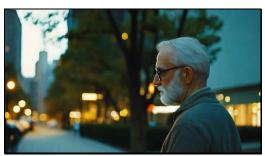






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Slide 37	AIA25 Conference of the Air	
	Prompt Engineering Tips	
	Frompt Engineering rips	
	Be descriptive; use adjectives	
	Try reference images in combination with text	
	Experiment with prompt length Experiment with parameters for AI creativity and variety	
	Ask ChatGPT to write your prompt for you	
	Iterate; keep what works and change what doesn't	
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	Prompt Engineering Methods	
	Ladder • Build the prompt in layers starting with foundational elements and adding detail.	
	Still the most reliable and recommended approach. Conversation	
	 Write a descriptive narrative as if you are chatting with your best friend. 	
	Becoming more viable as LLM technology improves. Reverse Engineer	
	 Upload a reference image and have an AI program like ChatGPT describe it. Change the details to create a new outcome. 	
	Image Blend	
	 Upload two or more images and combine them for new effects. Eschews text prompts entirely. 	
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	Prompt Engineering Best Practice	
	Trompt Engineering Boot Fraction	
	To organize a prompt with the Ladder Method, describe each component of the image putting the most important details first and separating discreet ideas with punctuation.	
	Type of Image (Photography, Pen & Ink, Watercolor, Blueprint, Anime, Oil painting)	
	Type of shot / Camera Lens (Panoramic, 35mm, Aerial, Portrait, Macro, Tilt Shift)	
	3. Subject & Secondary Objects (People, Landscape, Architecture, Animals)	
	Scenery (NYC alleyway, Rural gas station, Reception area, Reclaimed barn wood)	
	 Atmosphere / Lighting (Midday, Golden hour, Foggy dawn, Lit by streetlamps) Mood / Emotion (Melancholy, Energetic, Wholesome) 	
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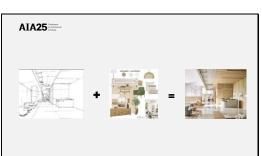
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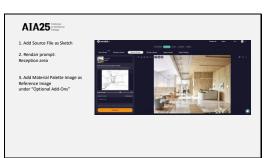
AIA25 **Prompt Mechanics** Good Prompt: A contemporary large pharmaceutical research facility at dusk, the building is mostly glass with contemporary detailing, there is a large open field in front with meandering pathways, a woman in a lab coat is walking with a group of children in the foreground AIA25 Iteration is Key It really is "push button, get movie." So, the bar is low... but not that low. Continuously adjust and tweak to make incremental improvements. Save what's good and fix what's bad. Minimize Al "artifacts" Workshop 1: Mood Board Concept Renderings

Slide 43	AIA25 States	
	LINKS	
	Miro Board:	
	https://tinyurl.com/AIA25Boston https://miro.com/app/board/uXiVI5v5JLM=/	
	Password: AIA25Boston!	
	Rendair AI: (sketch to render)	
	https://www.rendair.ai/	
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	Workshop 1: Renderings from a Line Drawing	
	Export a Perspective Line Drawing from the model (Revit / Sketch Up) Add mood board and/or materials (Rendair)	
	Create a quick rendering (Rendair)	
	Goals: To achieve quick iterations of perspective views that would help facilitate concept	
	To achieve quick iterations of perspective views that would help facilitate concept design, design directions, and general material paleites.	
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Slide 49	AIA25 Command	
	Add Source File as Sletch Rendair prompt: Recoption area luxe modern Add Material Palette Image as Reference Image under "Optional Add-Ons"	
Slide 50		
	Workshop 2:	
	Workshop 2: Storytelling Through Animation	
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	Workshop 2: Storytelling with Animation	
	Use Case: Often, a design solution is judged by how well it meets the needs of the users. This may occur by performing experience mapping to explore potential ideal states. Using charts and graphs, designers may explain a day-in-the-life of a staff member, the intake experience of a patient, or a meaningful moment of respite for weary family members.	
	But showing is better than telling. To make these experiences salient, let's use Al video to create a key user and animate an experience.	

Slide 52	Workshop 2: Storytelling with Animation Process: Create a character (Midjourney) Place them in a scene (Midjourney / Photoshop) Animate the scene (Runway)	
Slide 53	AIA25 LINKS Miro Board: https://tinvurl.com/AIA25Boston https://miro.com/app/board/uXiVI5v5JLM=/ Password: AIA25Boston! Midjourney: (text to image) https://www.midjourney.com/home Runway: (image to animation) https://runwaymi.com/	
Slide 54	AIA25 Character-Driven Architecture	
	Glimpse 2: Charlotte I Year 22 on 1 Year: 2081	



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