



Prompt

Describe the image you want to generate...

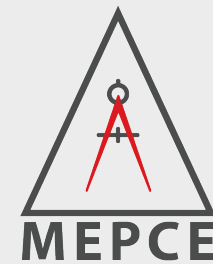
The inside of an artificial intelligence system.

ADOBE FIREFLY | TEXT TO IMAGE

# DESIGN INTELLIGENCE

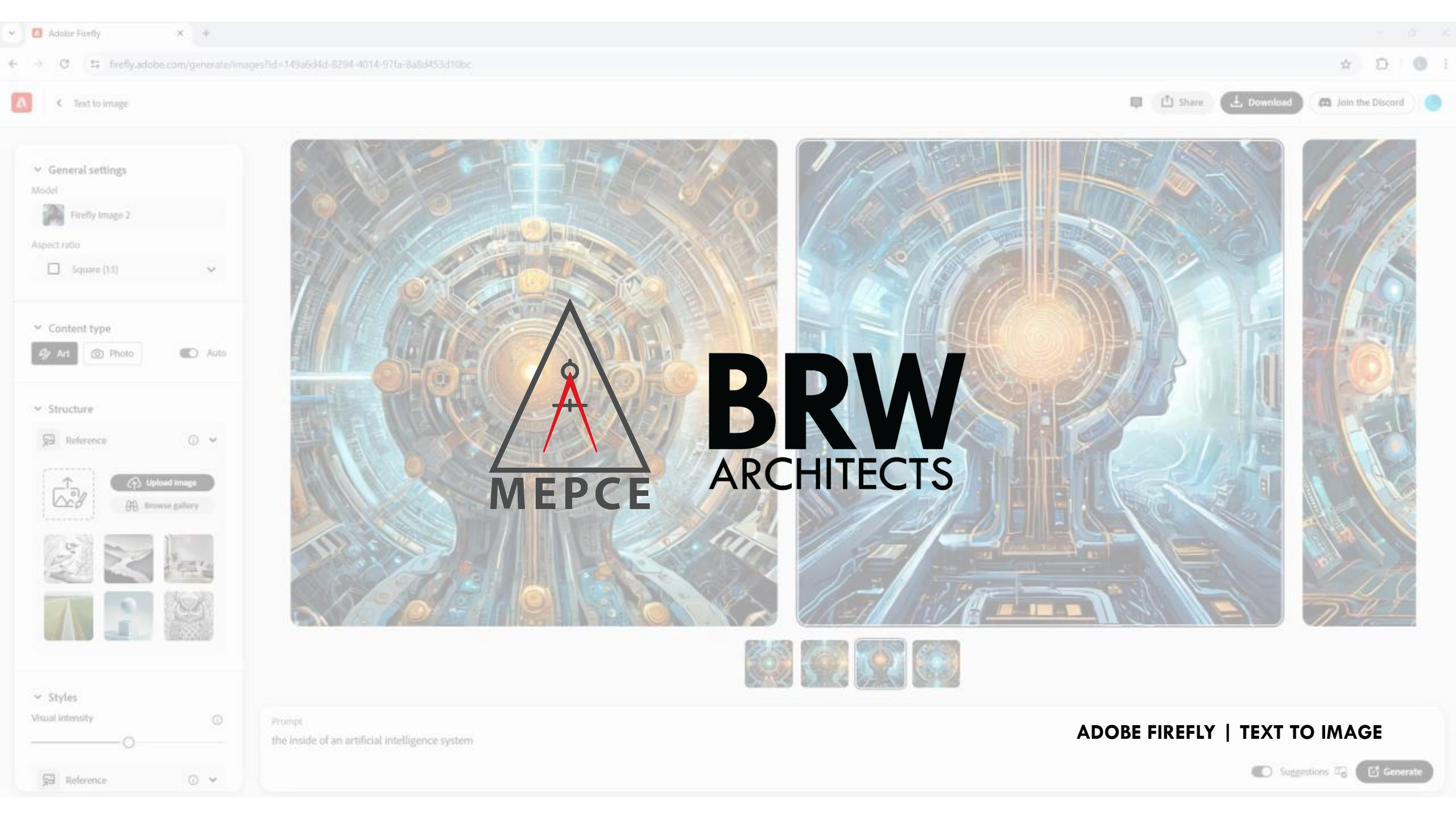
Worth Every Penny

BRWARCHITECTS + MEPCE



**BRW**  
ARCHITECTS





General settings

Model

Firefly Image 2

Aspect ratio

Square (1:1)

Content type

Art Photo Auto

Structure

Reference

Upload Image Browse gallery

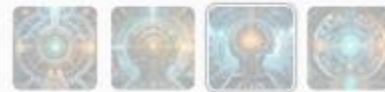
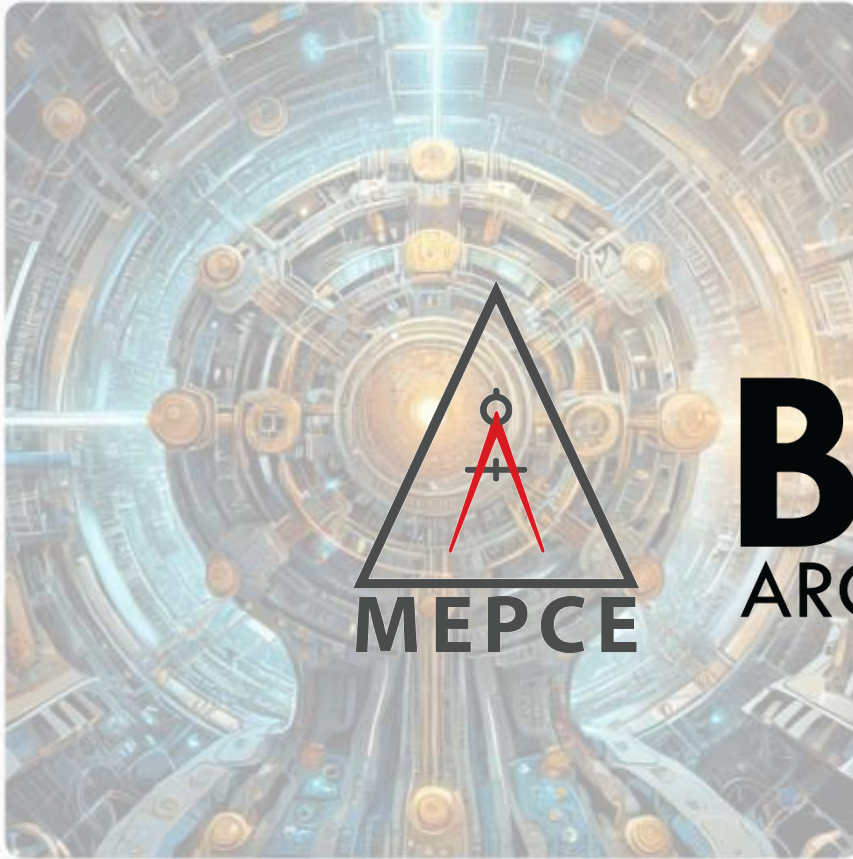


Styles

Visual intensity



Reference



Prompt  
the inside of an artificial intelligence system

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Suggestions Generate

Credit(s) earned on completion of this course will be reported to **AIA** CES for AIA members. Certificates of Completion for both AIA members and non-AIA members are available upon request.

This course is registered with **AIA CES** for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.



# LEARNING OBJECTIVES

1. Explore the **benefits of integrating Generative AI solutions into the design process.**
2. Analyze the **ethical implications** of using computer-generated designs in the **planning and construction of educational spaces.**
3. Acquire valuable perspectives and strategies to **navigate both opportunities and challenges** and formulate recommendations for **leveraging AI in responsible design.**
4. Examine **real-world examples of successful integration** of AI in education facility design.





## SPEAKERS



**Chris Sano**, AIA, LEED AP BD+C  
Principal | Design Director

**BRW** Architects



**Adam Nemati**, PE, RCDD  
Principal

**MEPCE**



**Cristina Kallenbach**  
Associate

**BRW** Architects





I'm not a robot

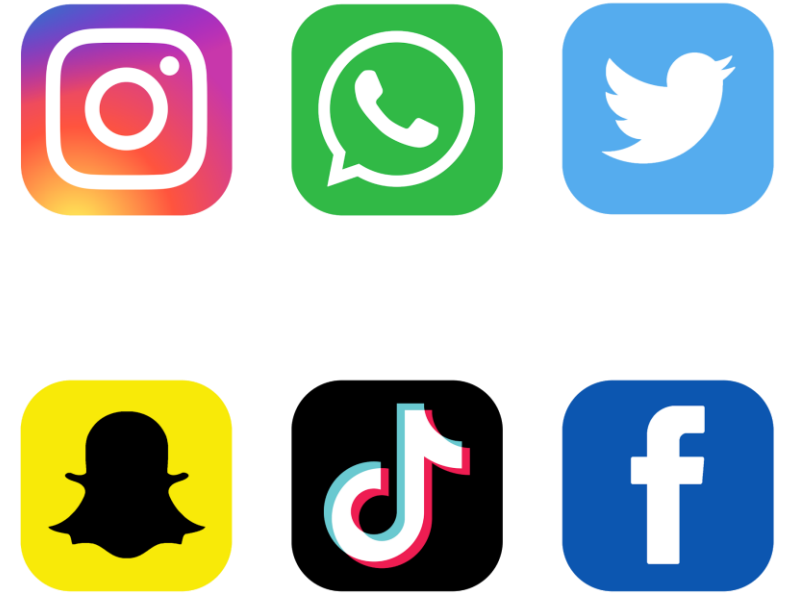


reCAPTCHA

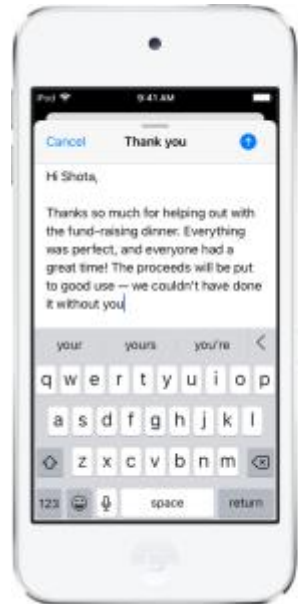
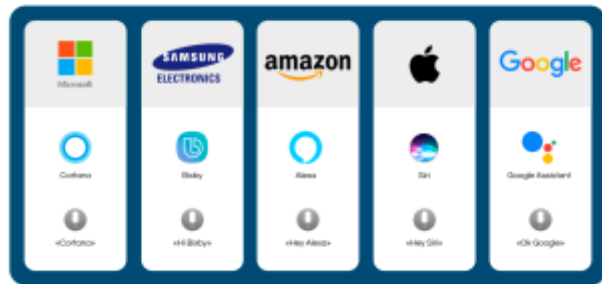
Submit



# INTRODUCTION



Virtual Assistants



Predictive text



**EVERYDAY AI**



# Artificial Intelligence

## WHAT IS AI?

### DEFINITIONS:

MACHINE LEARNING: Text here

GENERATIVE LEARNING: Text here

ARTIFICIAL INTELLIGENCE (AI): Text here

# Ar·ti·fi·cial In·tel·li·gence

## WHAT IS AI? SIMPLIFIED



**You**

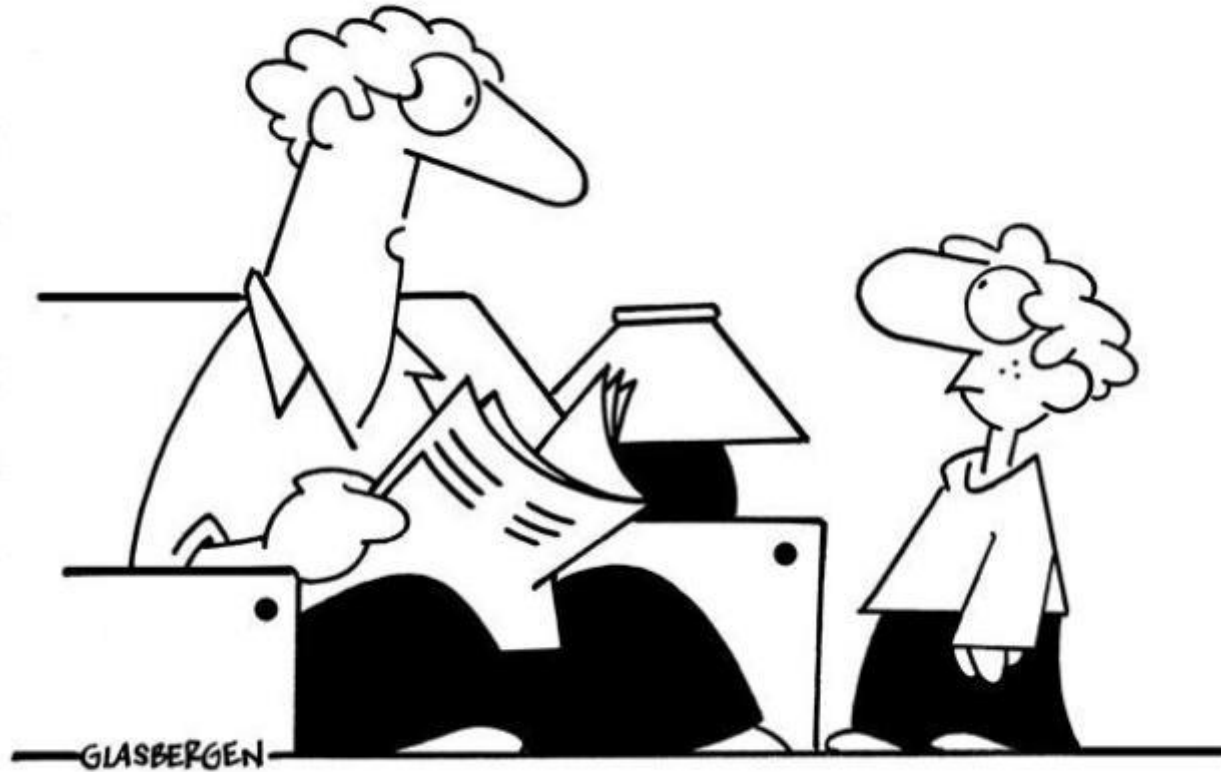
Explain what artificial intelligence is to me like I am 10 years old



**ChatGPT**

Okay, imagine you have a really cool computer program that can do more than just follow a list of instructions. It's like having a super smart friend inside your computer who can learn from the things it sees and does. This friend can help with all sorts of things, like recognizing pictures, understanding languages, or even playing games. That's artificial intelligence! It's like teaching computers to think and learn on their own, a bit like how you learn new things every day.

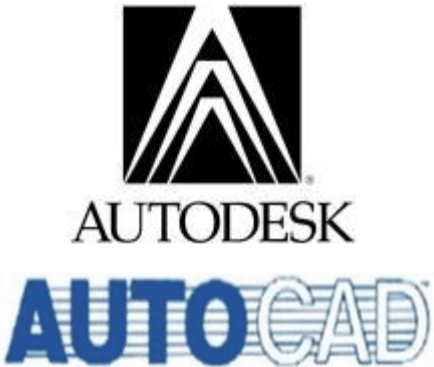
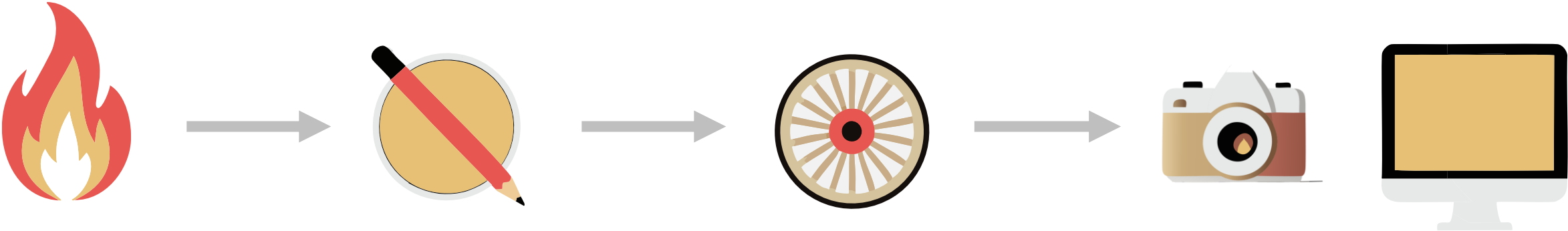
© Randy Glasbergen  
glasbergen.com



***“Artificial intelligence is when you get a college degree,  
but you’re still stupid when you graduate.”***



# HOW DID WE GET HERE?



AI



GRAPHIC ICONS MADE WITH ADOBE ILLUSTRATOR TEXT TO VECTOR

The background of the image is a soft-focus photograph of a mountain range at dusk or dawn. The sky is a mix of deep blues, purples, and pinks, with a faint rainbow visible in the upper left. The mountains are silhouetted against the colorful sky. The overall mood is serene and contemplative.

**LIFE OF A PROJECT**

**STARTING THE PROJECT**



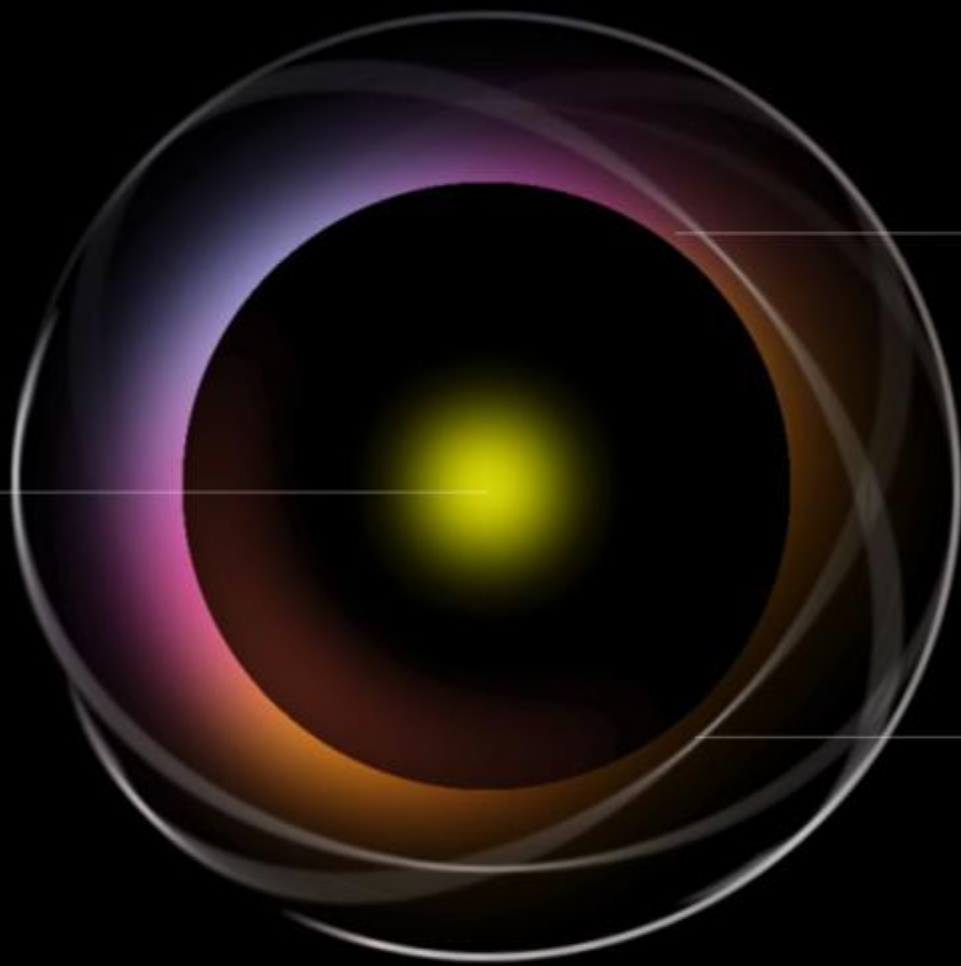
**CONCEPTUAL + DESIGN PHASE**

# Technology for Humanity's Future

BUY

BUILD





Layer 1  
Conversational  
interface

Layer 2  
Architecture &  
Construction Data  
Model

Layer 3  
Fine-tuned Architectural  
Image Generator

AI SYSTEM

## The Power of Vitruvius

Leveraging advanced AI technology to harness expertise from top architects, Vitruvius offers a cooperative home design process that is finely tuned to understand building and design requirements.

I have a pit-crew of world class engineers & designers behind me

CREATE ACCOUNT

SIGN IN



I'm Vitruvius, an AI Architect here to help design a home for you and your family. Tell me about the home you want to build.

Vitruvius

mountainside house bauhaus style

csano@brwerch.com

That sounds like a stunning choice! Bauhaus style offers clean lines and functional design, perfect for a mountainside setting. Could you share how many bedrooms and bathrooms you envision in your home?

Vitruvius

3 BEDROOMS, 2 BATHROOMS

4 BEDROOMS, 3 BATHROOMS

5 BEDROOMS, 4 BATHROOMS

CUSTOM DESIGN TO FIT NEEDS

SEND

NEW ↕

Your Designs ← →

Excellent, an outdoor living area will beautifully complement the mountainside setting and the Bauhaus aesthetic of your home. Before we proceed with the designs, could you share the location where you plan to build this home? This will help ensure the design fits well with the local climate and landscape.

Vitruvius

California

csano@brwarch.com

Perfect, California's diverse landscape and climate will provide a stunning backdrop for a 3D printed concrete house in the Bauhaus style with 3 bedrooms, 2 bathrooms, and an outdoor living area. I'll prepare three designs now. Please review them and share feedback for further options.

Vitruvius

SEND



IMAGE

FLOOR PLAN

### California Mountainside Bauhaus

FLOORS	1
BEDS	4
BATHS	2
SIZE	~ 1863 sq. ft.

← Back to Chat

NEW



California Mountainside Bauhaus

FLOORPLAN SUMMARY

1863 SQFT

A screenshot of a digital floor plan interface. At the top, the title "California Mountainside Bauhaus" is displayed with a home icon and a share icon. Below the title are two tabs: "FLOORPLAN" and "SUMMARY". The main area shows a white floor plan on a dark background, with several yellow circular markers placed in different rooms. At the bottom left is a share icon, and at the bottom right is the text "1863 SQFT".



← Back to Chat

NEW



California Mountainside Bauhaus

FLOORPLAN SUMMARY

Master Bedroom 1863 SQFT

A futuristic lunar construction site. In the foreground, an astronaut in a white suit with a NASA patch on the back is walking towards the left. To the right, a large, white, multi-legged robotic machine with a glowing orange light at its base is positioned. The ground is covered in a grid of circular tiles. In the background, another similar robotic machine is visible, and the lunar landscape with craters and mountains is illuminated by a bright light source, creating long shadows.

TO THE MOON

# Project Olympus

Olympus is a space-based construction system under active development to support the future exploration of the Moon with NASA and for commercial lunar construction projects. The Olympus construction system is being designed and engineered to construct landing pads, roadways, non-pressurized structures, and pressurized habitats.

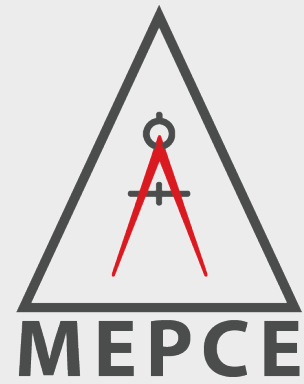


**CONSTRUCTION + POST OCCUPANCY**



**WHAT'S NEXT?**

**QUESTIONS**



**BRW**  
ARCHITECTS

**CLOSING THOUGHTS**



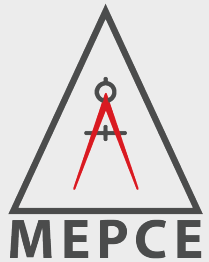


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**BRW**  
ARCHITECTS

*THANK YOU!*