

DESIGNING FOR WHAT'S NEXT

When the Answer is Easy, Thinking Matters More

By Carl Hooker





What if....

You took song lyrics
and then added
them to an
A.I. Image
generator?

kar**AI**oke













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By Carl Hooker





CARL HOOKER:

27-years in education
Podcast host
Co-founder K12Leaders
Author
Father
Husband



*“Reimagine this kid as
a 50-year old man”*



*"Reimagine this guy
as a 10-year old
kid."*

*"Now give him a
goatee."*

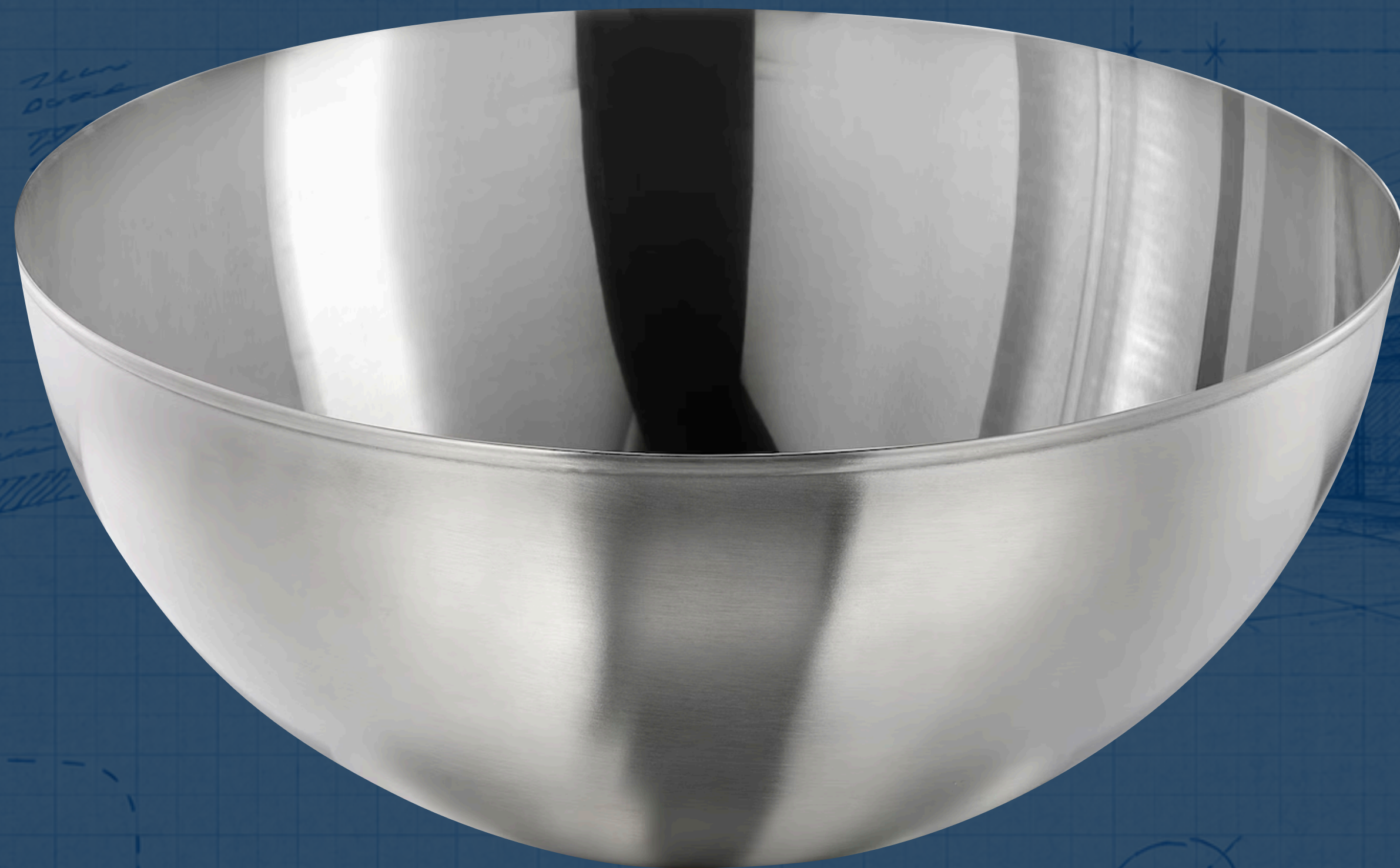
"Reimagine these 3 girls as 40-year olds."

"Now reimagine these 3 girls as a 80-year olds."











Poll: One Word Answer

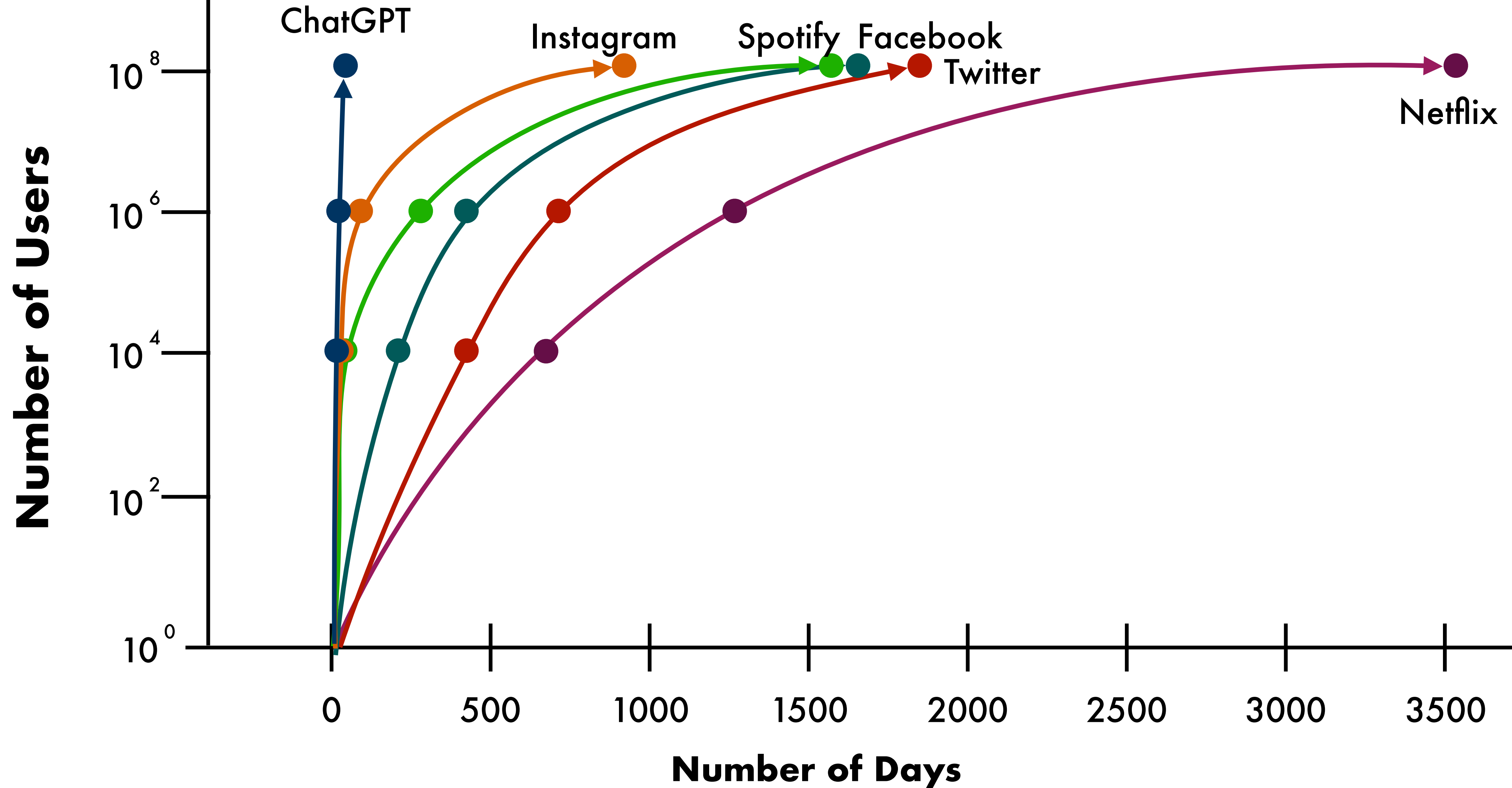
**What do you
think AI has
changed the
MOST?**



**Post thoughts here:
mrhook.it/poll**

Poll results

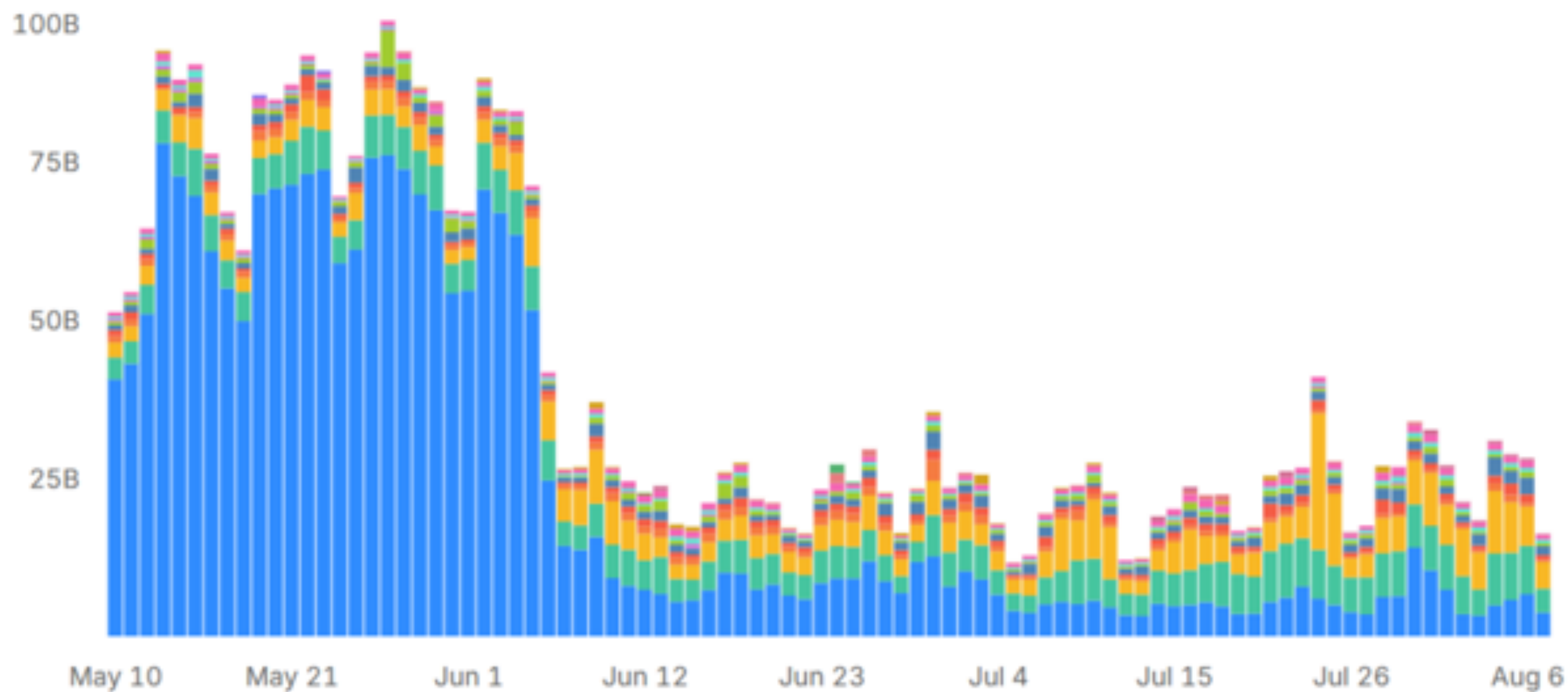
Number of days to 100,000, 1 Million, and 100 Million users by technology platform



Browse models provided by OpenAI ([Terms of Service](#))

31 models

Tokens processed



BLUEPRINT #1

Inspecting the Foundation

DRAFT

Focus → Collaborate → Socialize



The Faculty Co-Lab.

The Active Learning Classroom.

Poll: Short Answer

**What was
school
originally
designed to do?**



**Post thoughts here:
mrhook.it/poll**

Poll results

Top 10 Job Skills - World Economic Forum

2020

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Judgement & Decision Making
8. Service Orientation
9. Negotiation
10. Cognitive Flexibility

2030

1. AI & big data
2. Networks & Cybersecurity
3. Technological literacy
4. Creative thinking
5. Resilience, flexibility and agility
6. Curiosity and lifelong learning
7. Leadership & Social Influence
8. Talent management
9. Analytical thinking
10. Environmental stewardship

What should schools primarily design?

CREATIVITY

PROBLEM-SOLVING

CHARACTER

INNOVATION

ADAPTABILITY

AGENCY

APPROVED

IFICIA

LEARNING



STAND

WALK



BLUEPRINT #2

Load Bearing Walls

DRAFT



Which walls should we keep?

Preserve - Structurally Essential

Renovate - Purpose remains, but the design changes

Demolish - No longer serves the building

Add - Something new

CLASS RANKINGS

BELL SCHEDULE

PORTFOLIOS

GRADES

HOMEWORK

ASSESSMENTS

STEADY STATE GRADE LEVELS

GAME OF SCHOOL





recipe

SERVES 10-12

TIME: 1 hour

FROM THE KITCHEN OF: Carolyn

INGREDIENTS:

1 cup butter
sifted

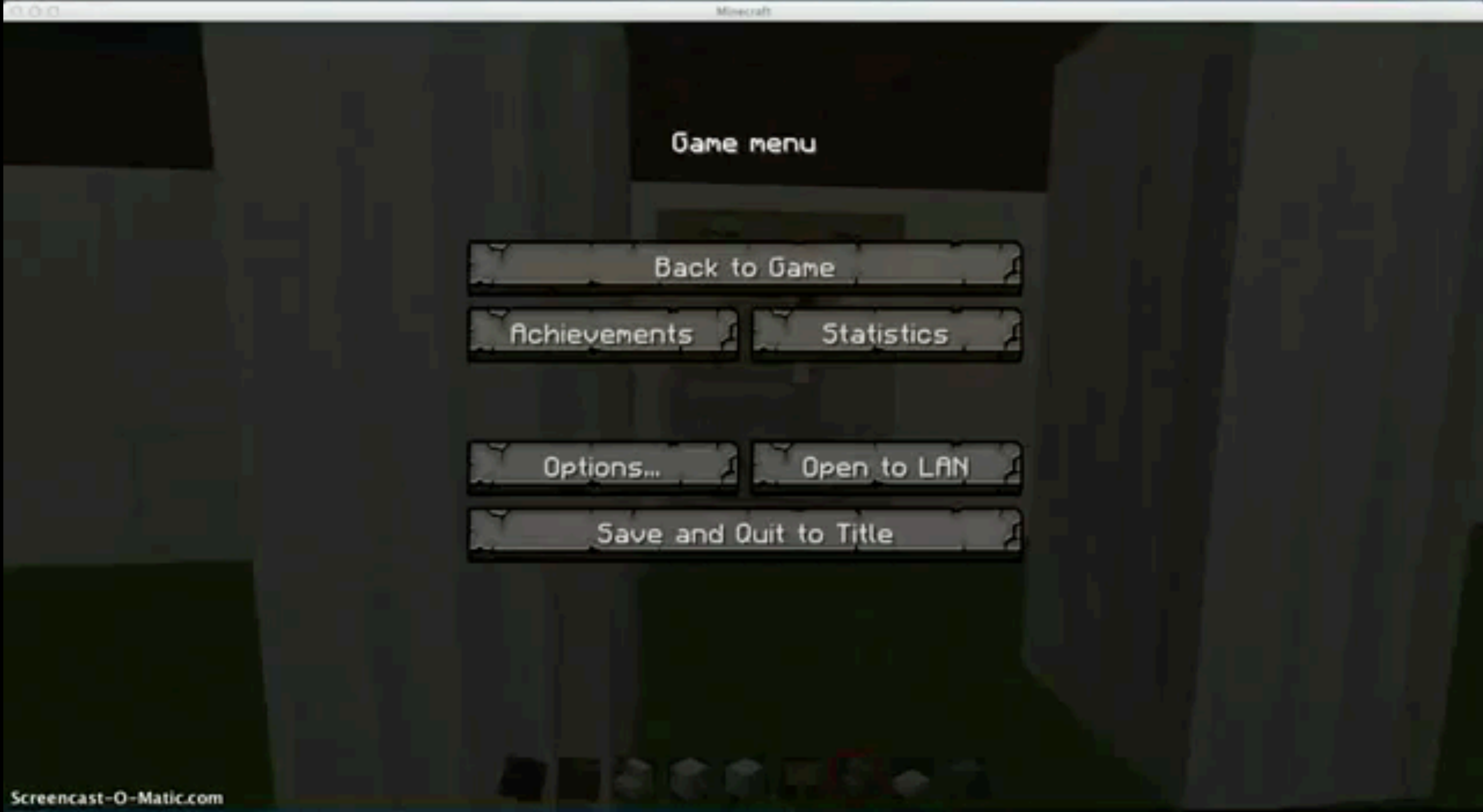
DIRECTIONS:

Crust: beat butter on med. speed for 30 seconds
to soften. Add the $\frac{3}{4}$ c. powdered sugar &
until combined. Add 2 cups flour - beat &
combined. Press dough on bottom of
pan at 350°
filling combined
flour





Did you follow directions?



A large flock of sheep, all wearing black sunglasses, symbolizing conformity. The sheep are densely packed and fill the entire background of the image. The text is overlaid on this background.

How do we change schools from
places of conformity and compliance
to environments that foster creativity
and innovation?

What is AI Stress-Testing?

KNOWLEDGE RECALL

MISINFORMATION

CRITICAL THINKING

WRITING
ASSIGNMENTS

RESEARCH

BIAS

AUTHENTIC WORK

TRANSPARENCY

ACADEMIC
INTEGRITY

ADDRESSING BIAS IN AI

ADDRESSING BIAS IN AI

*Let's try an
experiment in bias*

When you hear the word “hacker**” what
image forms inside your mind? What does
the **hacker** look like?**

What are they wearing?

What kind of room are they in?

What is on the computer screen?

< All

Images

News

Videos

Books

: More

Tools

 SavedSafeSearch 

background



computer



logo



laptop



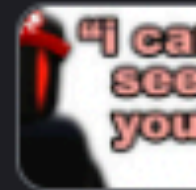
symbol



cyber



minecraft



roblox



cool

 Medium

Hacker Can Do to Your Com...

 NEWS10 ABC

Longer passwords make it more ...

 Metatime

What Is a Hacker? What Are the Type...

 VMware Blogs

Motives for Hacking ...

 IMDb

Hacker 3.0 (Short 2...

 Hacked.com

How to Avoid Being Targeted by Hackers

 Avast

Hacking Definition | Avast

 Simplilearn.com

Ethical Hacking Tools and Software for ...

 CNBC

cyberhacks still impacting consumers t...

ADDRESSING BIAS IN AI

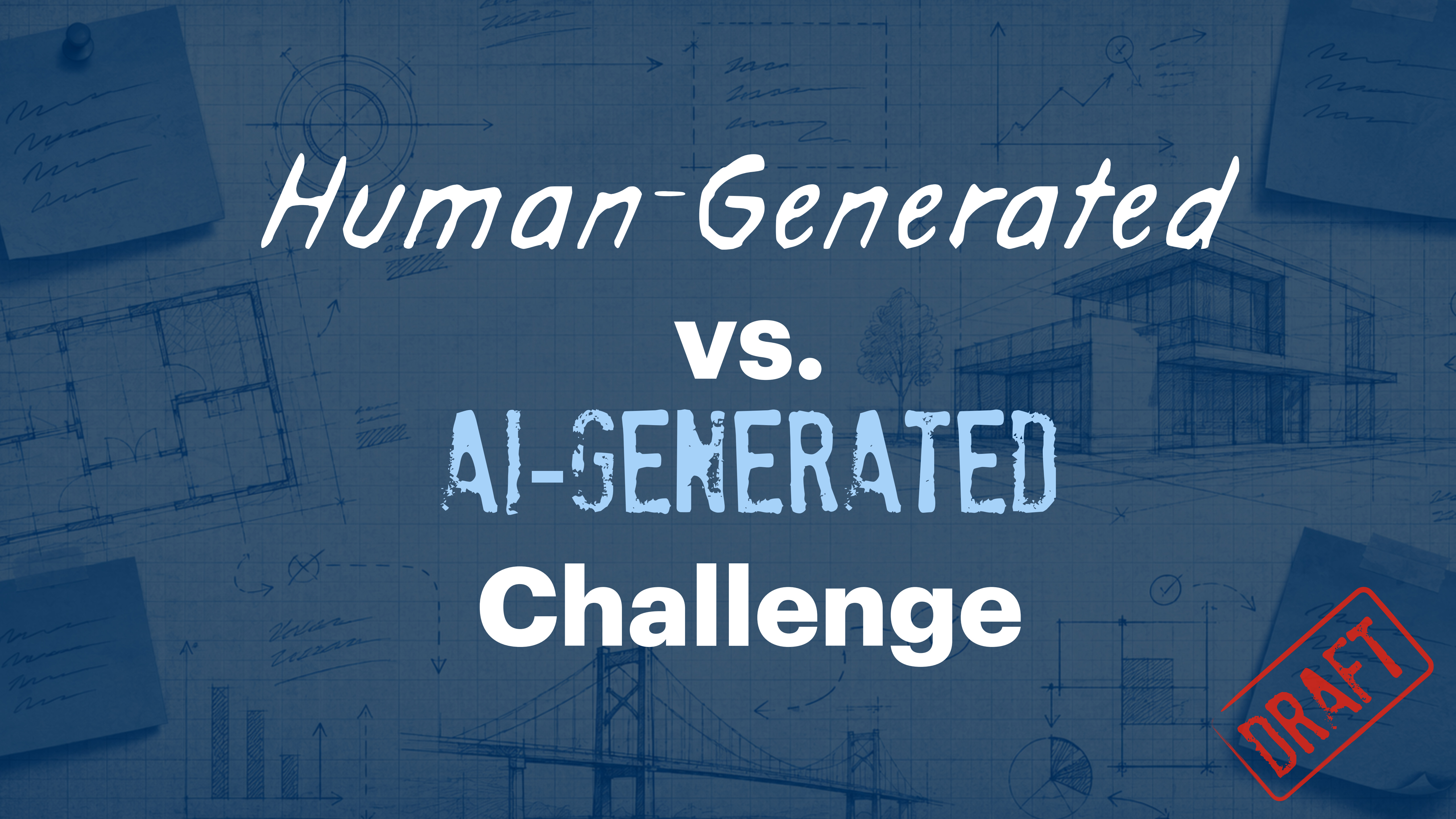
Prompt:
[Generate an image of a doctor and a teacher getting married]

Credit:
Michelle Manning



Biases present:

- **Gender roles**
- **Race**
- **Male/Female**
- **Religion**
- **Height/Weight**
- **Hair color**
- **Age**

The background is a dark blue collage of various architectural and technical sketches. It includes a circular diagram with radial lines, a line graph with an upward trend, a floor plan of a building, a perspective drawing of a modern building, a bar chart, a pie chart, and a suspension bridge. There are also several sticky notes with handwritten text and arrows indicating flow or relationships between different elements.

Human-Generated

vs.

AI-GENERATED

Challenge

DRAFT

WHICH IS AI-GENERATED?

STAND

SIT

WHICH IS AI-GENERATED?



STAND



SIT

WHICH IS AI-GENERATED?



STAND



SIT

HUMAN OR AI?

If your goal is to lose five actual pounds by next weekend, I have some bad news: It's basically impossible to lose that much body fat in a week. Womp womp. Since it's such a short amount of time, even if you incorporate some healthy lifestyle changes (more on that later) the most you'll be able to lose is about a pound, says Wendy Leonard, RD, founder of Rhode Island Nutrition Therapy.

HUMAN

STAND=HUMAN

SIT=AI

WHICH IS AI-GENERATED?

Song 1

STAND



Song 2

SIT

WHICH IS AI-GENERATED?



STAND



SIT

A man with a goatee and a dark jacket is speaking into a microphone with a pop filter. The background is dark and out of focus. The microphone has a circular pop filter with the brand name 'Audio-Technica' visible. The man is looking directly at the camera.

Carl Hooker @mrhooker

A BLUEPRINT FOR AI USAGE IN THE LEARNING PROCESS

Utilize AI for:
Idea generation,
brainstorming, or
creative blocks

CONCEPT



DESIGN



Utilize AI to:
Create models,
images, visuals,
outlines or first
drafts

Utilize AI as:
a thought partner
or a critical relection
tool

REFLECT



TEST



Utilize AI as:
a research assistant,
tutor, a feedback
tool or simulator

APPROVED

BLUEPRINT #3

Build for Thinking

DRAFT

LEARNING EVOLUTION

2024 Top uses of AI 2025

- 1 Generating Ideas
- 2 Therapy/Companionship
- 3 Specific Search
- 4 Editing Text
- 5 Exploring Topics/interest
- 6 Fun & nonsense

LEARNING EVOLUTION

2024 Top uses of AI 2025

- 1 Generating Ideas
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- 3 Specific Search
- 4 Editing Text
- 5 Exploring Topics/interest
- 6 Fun & nonsense

- 2 Organizing my life
- 3 Finding Purpose
- 4 Enhanced Learning
- 5 Generating code
- 6 Generating Ideas

IF AI CAN DO THIS FOR STUDENTS

THEN HUMANS MUST....



Brainstorm ideas



Review your work



Tutoring & support



Write a draft



Feedback & editing
suggestions



Help create visuals



Post thoughts here:
mrhook.it/poll

UTILIZING AI TO HAVE A DEEPER IMPACT ON LEARNING

APPROVED

Apple Podcasts Preview



10 min

PLAY ▶

Why Some Educators Are Paying Very Close Attention to Artificial Intelligence

F2D: Forward to Different

How To

[Listen on Apple Podcasts ↗](#)

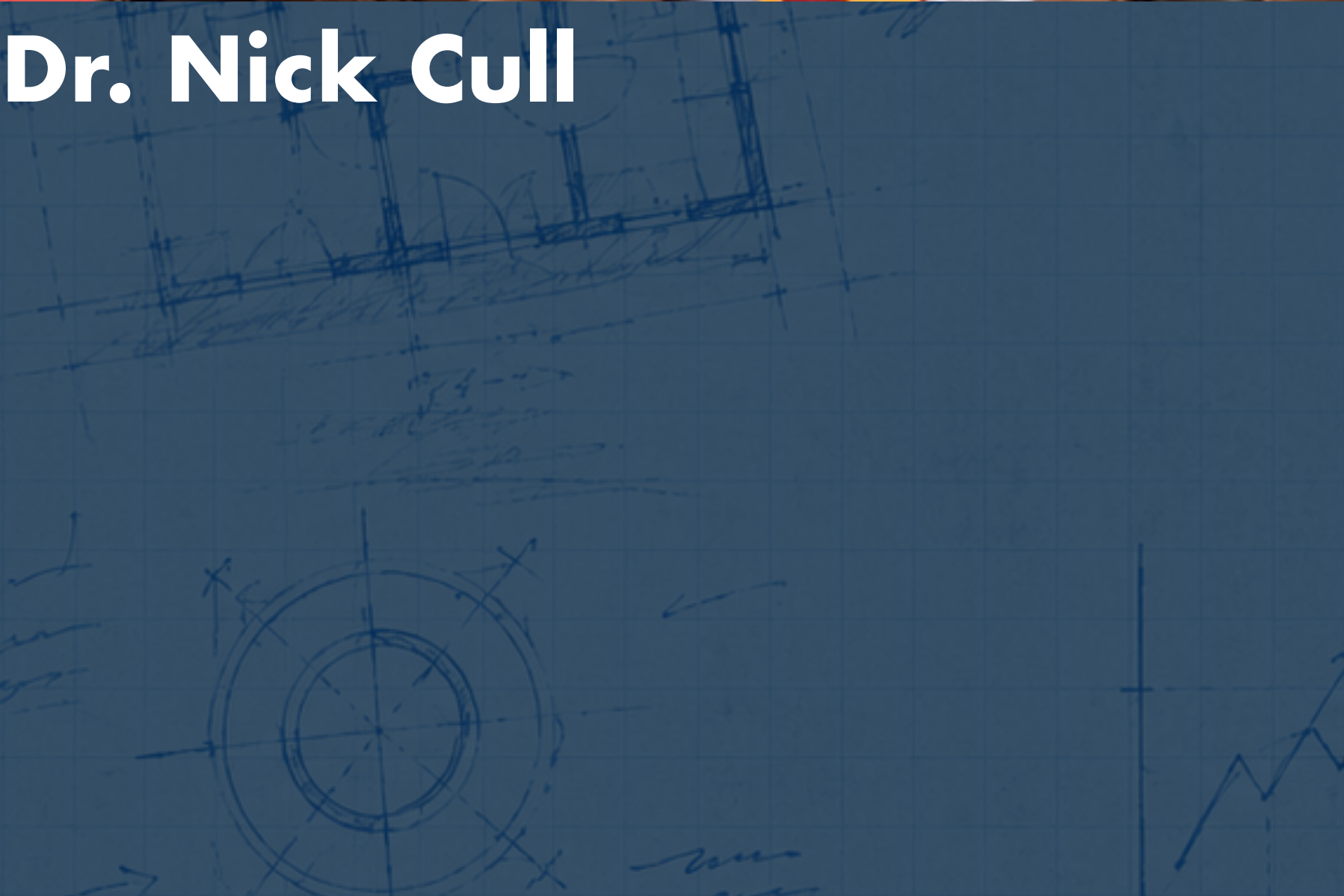
Throughout history, technological innovations have affected society in profound ways. Rarely does an invention come along that makes a seismic shift in how we think and learn. What does history tell us about the future of education? A historian explains why artificial intelligence is very different from what we know, and why it is so important.

Follow on Twitter: @mrhooker @bamradionetwork @

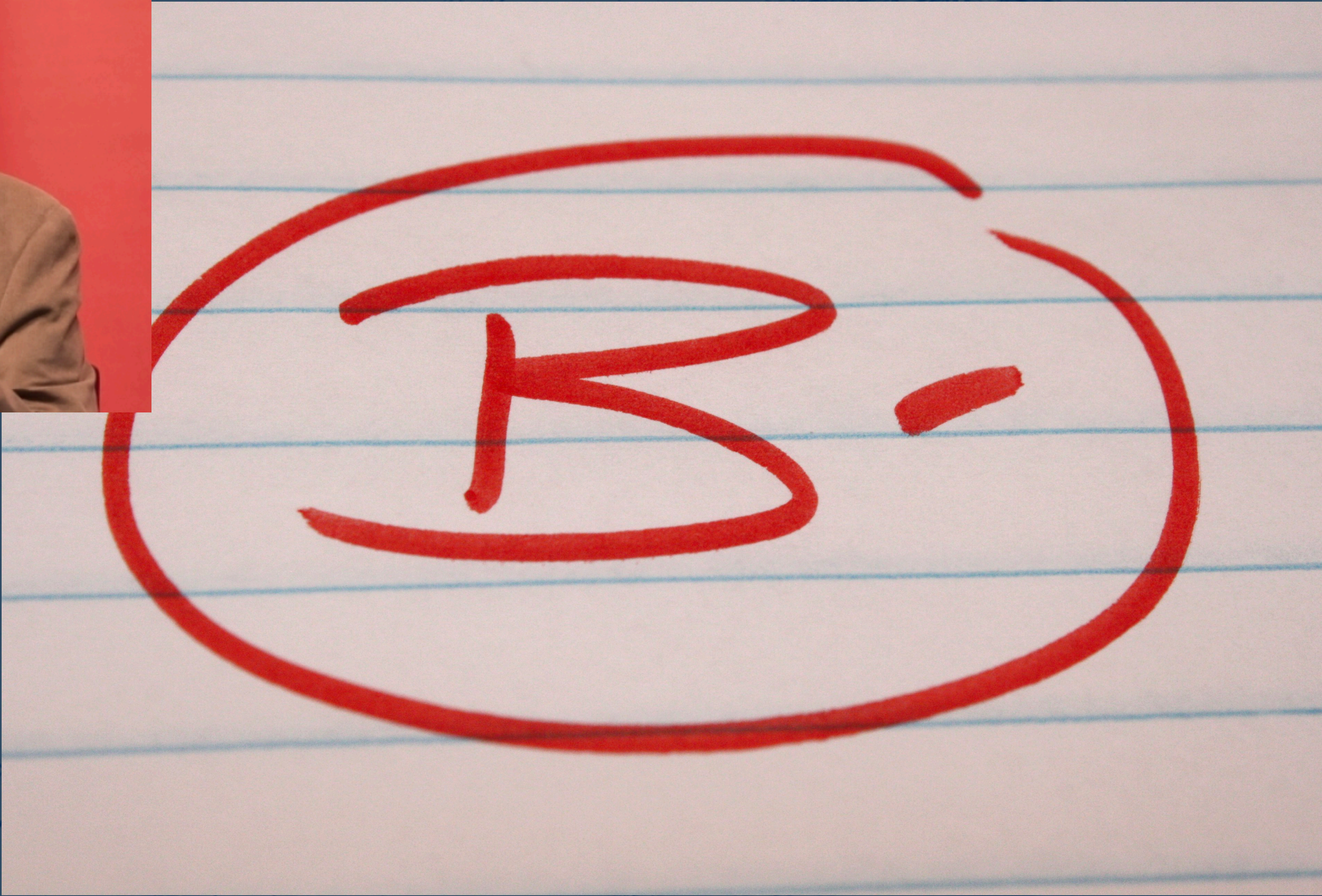
Nicholas J. Cull Ph.D is a historian and professor in the Annenberg School for Communication and Journalism, the founding director of this program and ran it from 2008 to 2015. He is currently at the University of Leeds. As a graduate, he studied at Princeton University as a Harkness Fellow of the Commonwealth Fund of New York. Cull's research and teaching interests are broad and inter-disciplinary, and focus on public diplomacy, the role of advocacy, culture, exchange, broadcasting, and public opinion research in foreign policy. Cull has also worked more broadly on the history of propaganda, film, television and radio history and the role of mass media as a source for historical study. He is best known for detailed historical studies of the institutions behind public diplomacy and for emphasizing the importance of "listening" as a pre-condition for successful public diplomacy. He coined the term

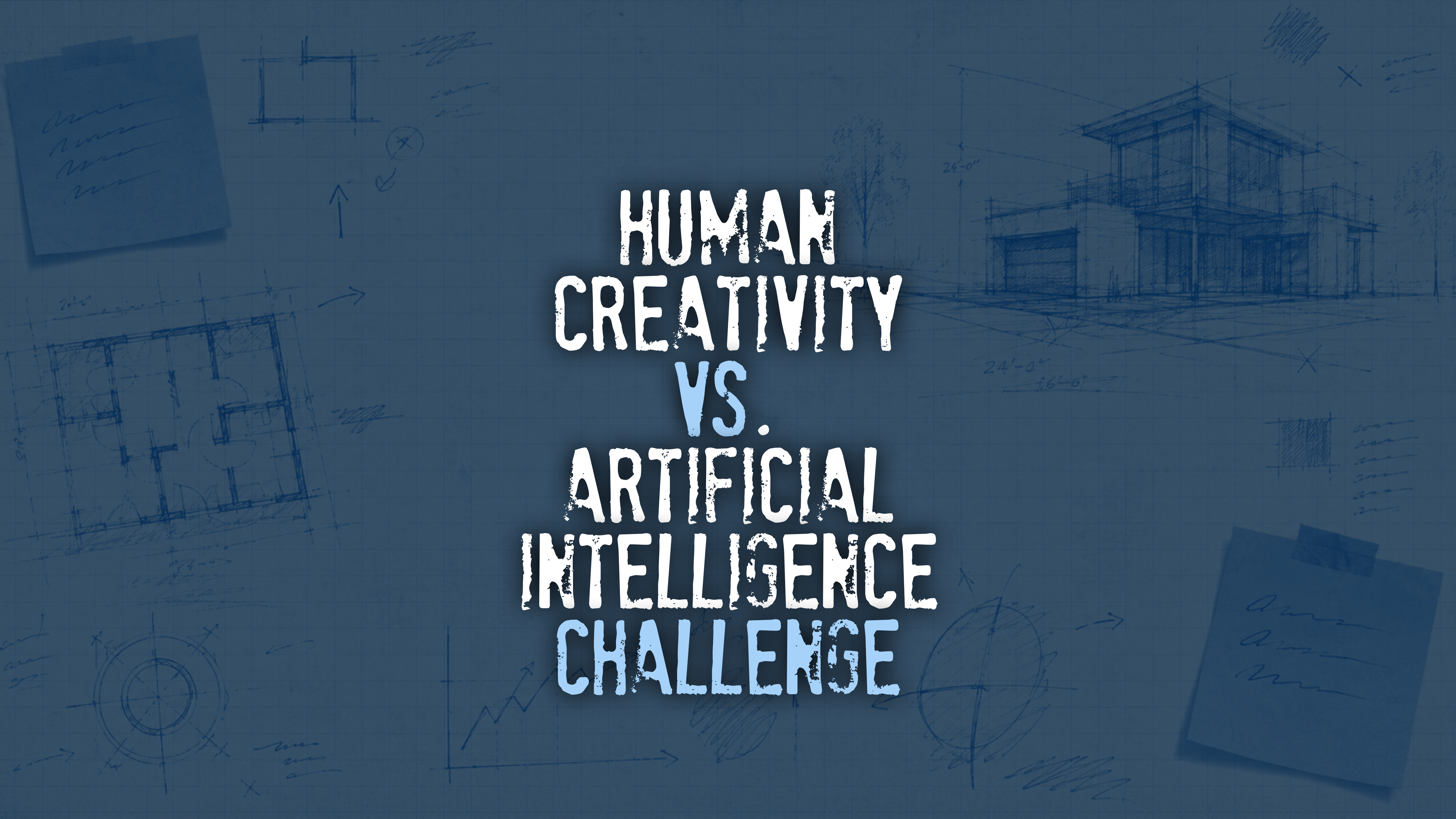


Dr. Nick Cull



Dr. Nick Cull



The background is a dark blue grid. It features several faint, light blue architectural sketches. In the top left, there's a sketch of a rectangular frame with an arrow pointing up and a circled 'X' to its right. Below that is a larger, more complex floor plan sketch with various lines and circles. In the top right, there's a perspective sketch of a modern building with large windows and a flat roof, with dimensions '24'-0"' and '16'-0"' noted. In the bottom left, there's a circular sketch with concentric circles and radial lines. In the bottom right, there's a sketch of a circle with a vertical line through its center. There are also some scribbled lines and other small geometric shapes scattered across the grid.

HUMAN CREATIVITY VS. ARTIFICIAL INTELLIGENCE CHALLENGE

THINGS FOUND AT A BBQ COOK-OUT





list 50 things you would find at a bbq cook-out

< 2 / 2 >

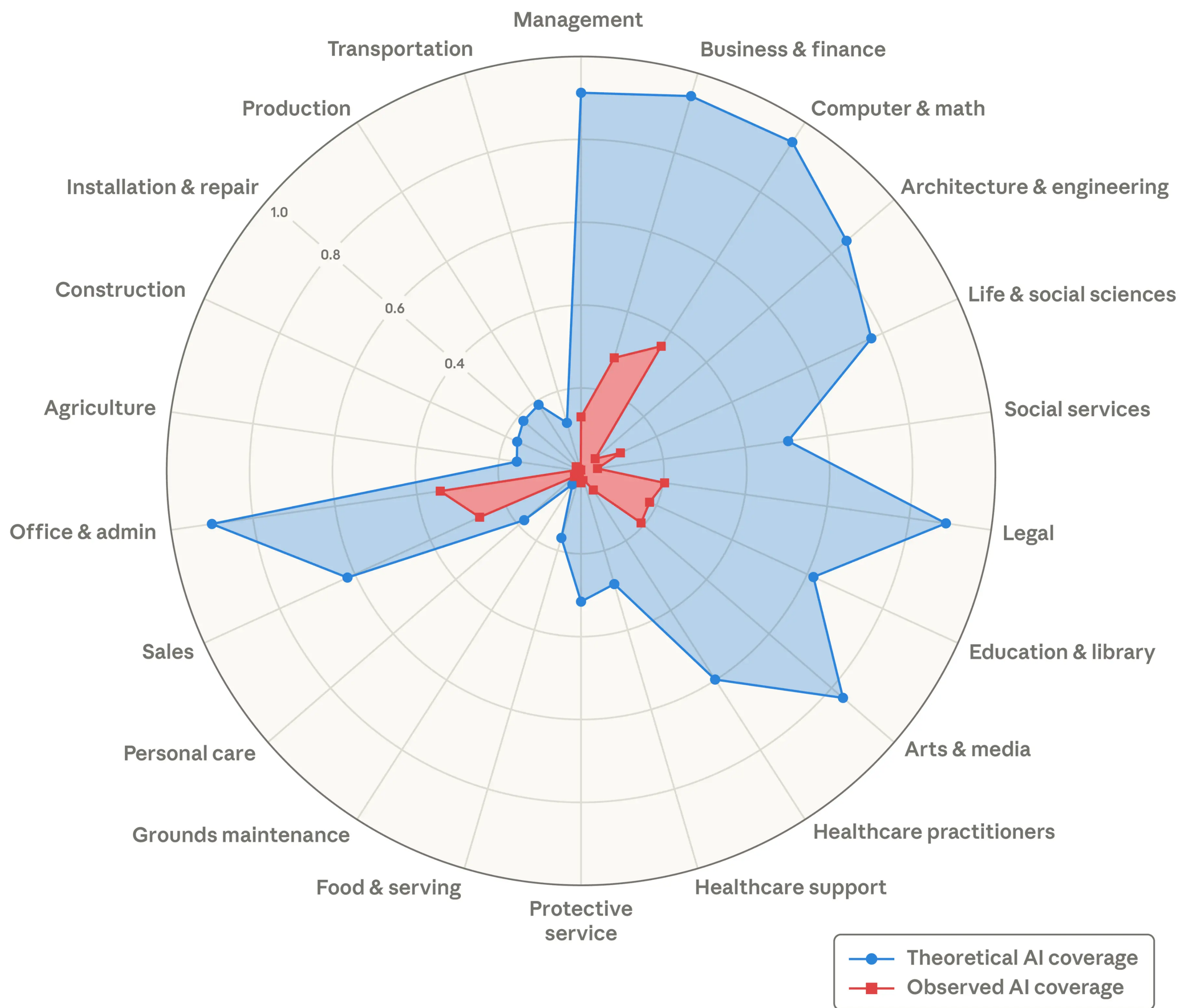


☐ Stop generating

BLUEPRINT #4

Design for an Unknown Future

DRAFT



WillRobotsTakeMyJob.com

WILL ROBOTS TAKE MY JOB?

Enter your job

or show random example

JOBS IN 1996

Travel Agent
Video Store Manager
Newspaper Layout Artist
Map Maker
Film Developer
Word Processor
Bank Teller
Print Shop Prepress Tech
Retail Stock Photographer

JOBS TODAY

AI Prompt Engineer
AI Trainer
Drone Pilot
Cybersecurity Analyst
GIS Data Scientist
UX/UI Designer
Virtual Production Artist
Cloud Solutions Architect
Bio nano technician

JOBS THAT DIDN'T EXIST UNTIL THE PAST DECADE:

Social Media Influencer

Data Scientist

App Developer

Cloud Engineer

Autonomous Vehicle Safety Operator

Esports Coach

XR (AR/VR) Experience Designer

AI Ethics Consultant

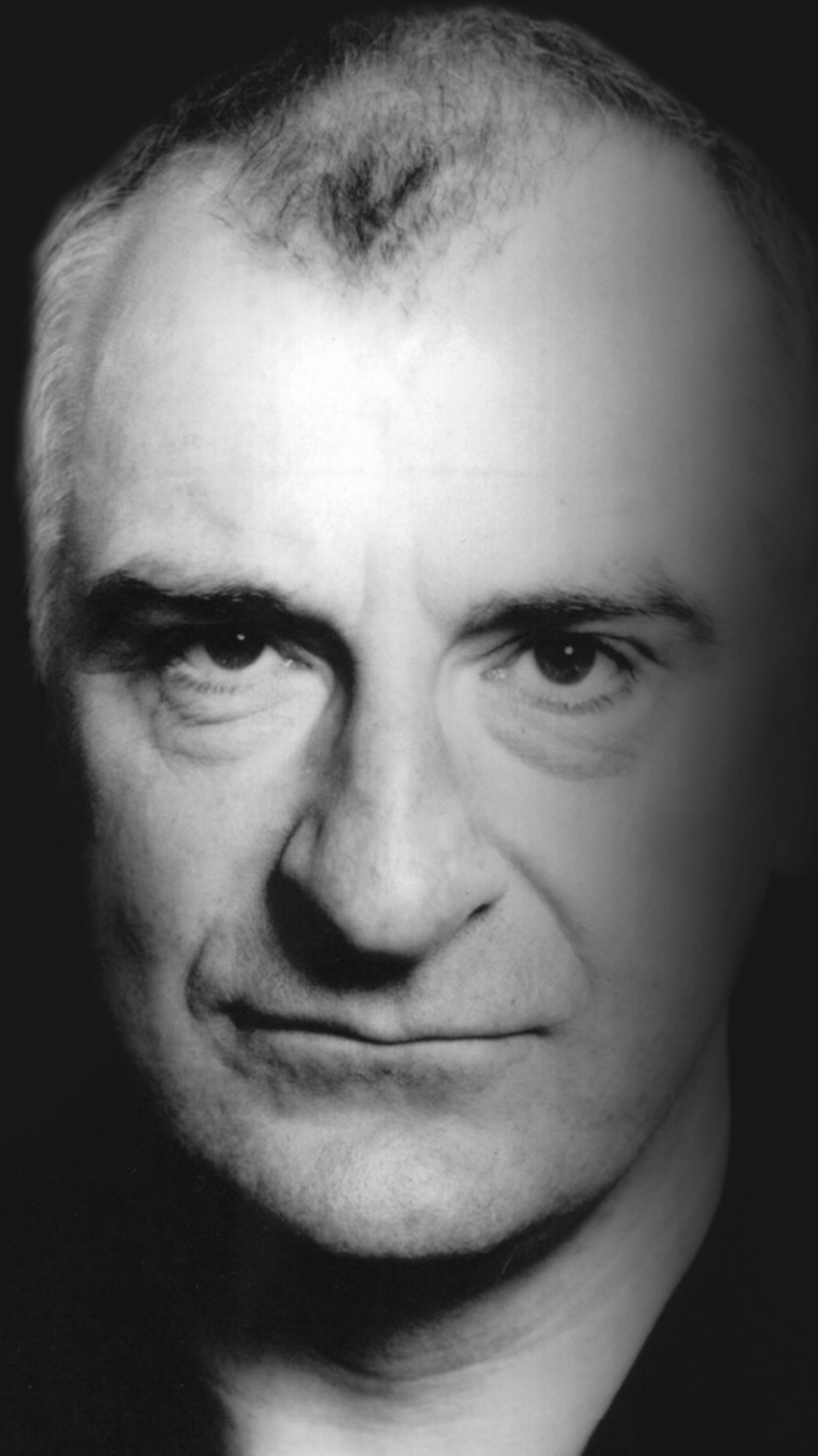
Cyber Threat Analyst

Invented in 2008



Invented in 2007





Technology is....

1. Anything that is in the world when you're born is normal and ordinary and is just a natural part of the way the world works.

2. Anything that's invented between when you're fifteen and thirty-five is new and exciting and revolution and you can probably get a career in it.

3. Anything invented after you're thirty-five is against the natural order of things.

-Douglas Adams



A white, heavily rusted and worn Ram van is parked on a paved street. The van is a box-style vehicle with a large front grille and a chrome bumper. The hood and front fender are covered in significant rust and peeling paint. The background shows a residential neighborhood with houses, trees, and a black metal fence. A person in a green shirt is visible in the distance on the right side of the street.

Don't get a car with a stranger

A person wearing a dark hoodie is shown from the side, typing on a laptop. The background is a light blue gradient with a pattern of binary code (0s and 1s). The text "Don't meet people from the internet" is overlaid in the center in a white, bold, sans-serif font.

**Don't meet people from the
internet**

Today:
Contact a stranger from the
internet to ride in their car.



JOBS YOUR STUDENTS MAY HAVE IN 2046

Memory Augmentation Specialist

Climate Migration Planner

Space Habitat Educator

Digital Identity Architect

Synthetic Biology Designer

AI Trust & Verification Officer

Robot Fleet Manager

Personal Learning Designer

Human Creativity Consultant



IF WE CAN'T PREDICT THE
FUTURE OF JOBS...

WHAT SHOULD WE PREDICT
FOR STUDENTS?

FOUNDATION FOR THE FUTURE.

- DESIGN
- LEARN
- ADAPT
- INNOVATE

FLOOR PLAN

FRONT ELEVATION

DETAIL

STEEL BEAM
CONCRETE SLAB
INSULATION
GLAZING SYSTEM
FINISH FLOOR
STEEL COLUMN

NOTES:

- PURPOSE DRIVEN
- PEOPLE CENTERED

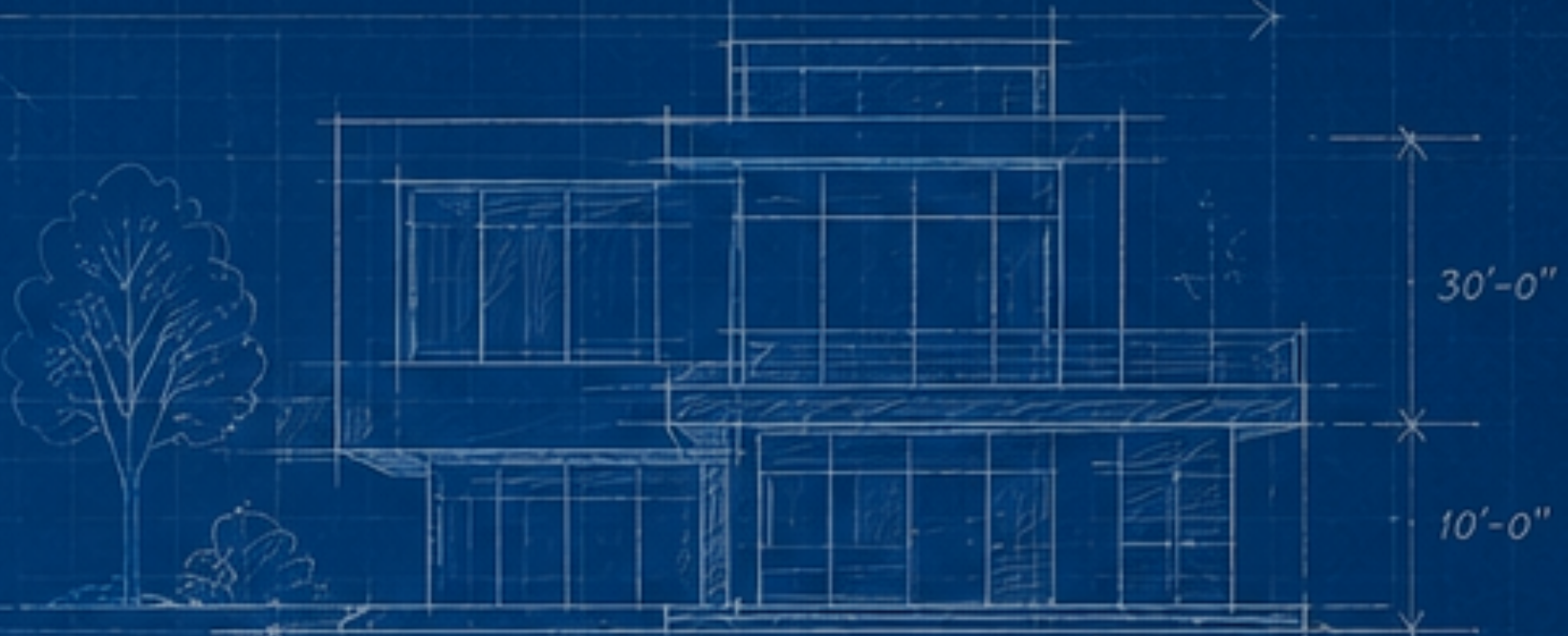
BLUEPRINT FOR

LEGEND

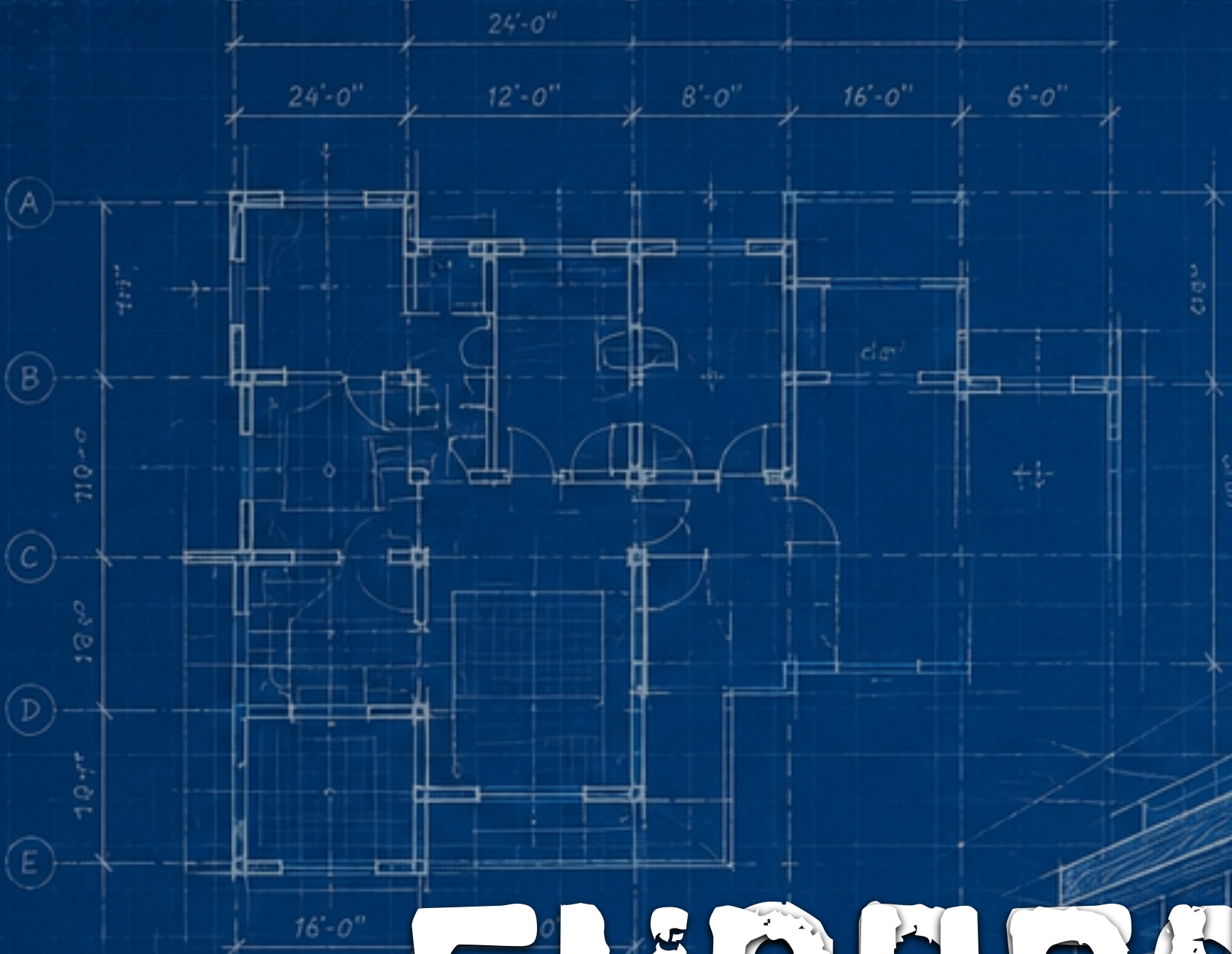
- EXISTING
- NEW CONSTRUCTION
- STRUCTURAL

FOUNDATION FOR THE FUTURE.

- DESIGN
- LEARN
- ADAPT
- INNOVATE
- INSPIRE



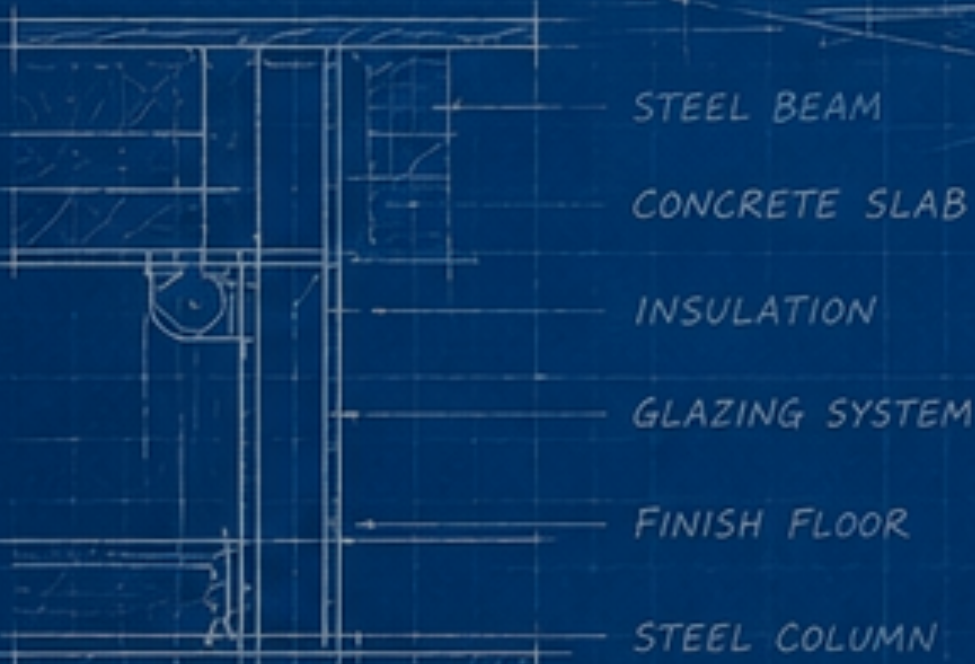
FRONT ELEVATION



FLOOR PLAN

ENDURING CAPABILITIES

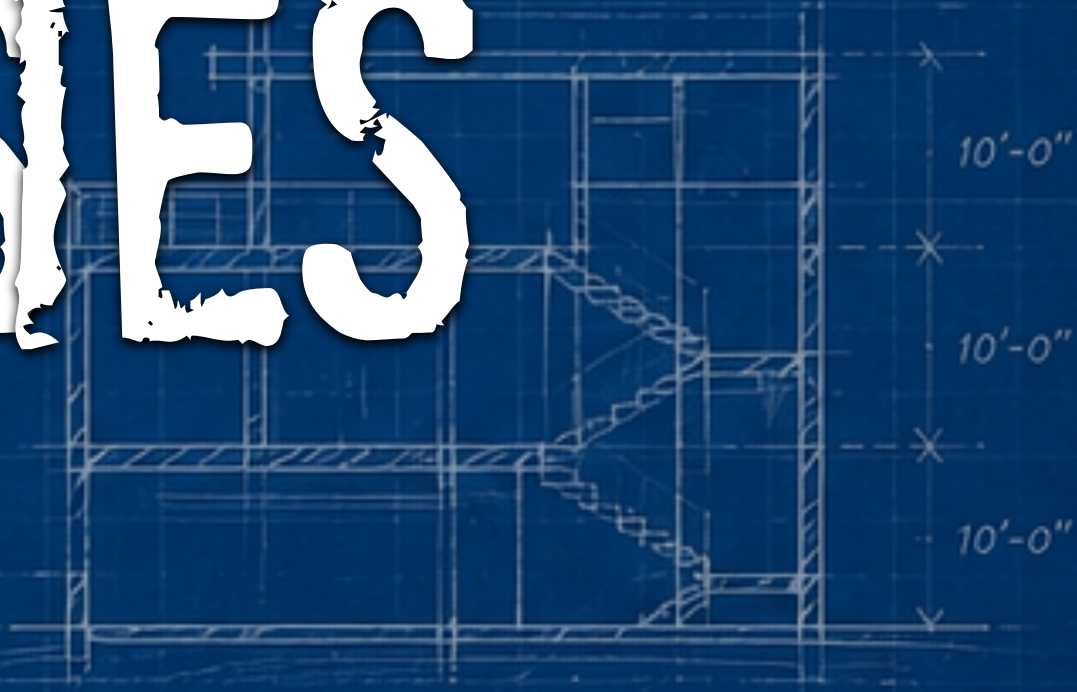
DETAIL



NOTES:

- PURPOSE DRIVEN
- PEOPLE CENTERED

SECTION A-A



LEGEND

- EXISTING
- NEW CONSTRUCTION
- STRUCTURAL

BLUEPRINT FOR

ENDURING CAPABILITIES

Curiosity

Critical Thinking

Adaptability

**Learning how to
learn**

Creativity

Resilience

Collaboration

Communication

Ethical Judgement

HOW DO WE INTEGRATE THESE INTO THE LEARNING PROCESS?

Curiosity

Critical Thinking

Adaptability

Creativity

Learning how to learn

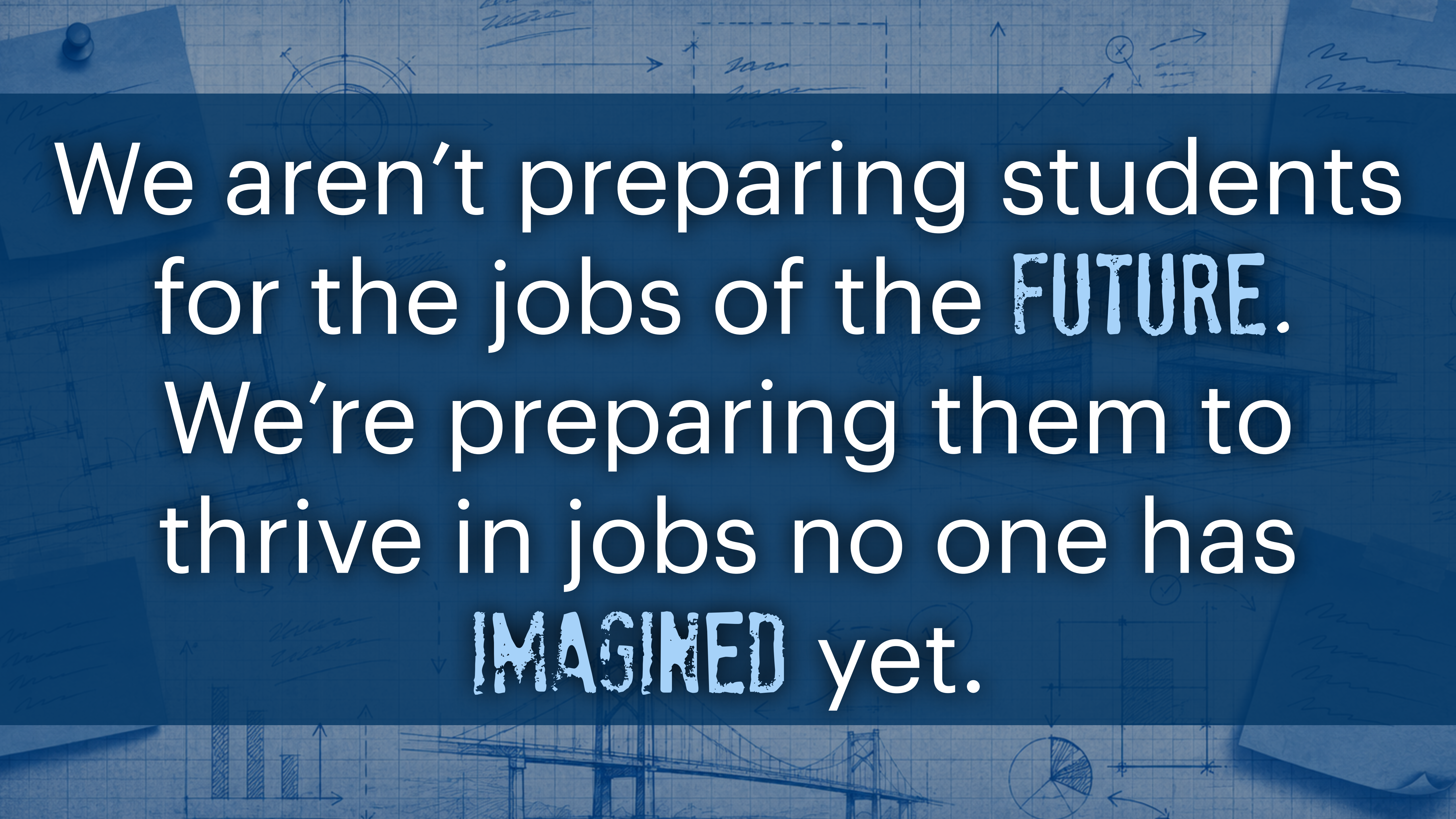
Resilience

Collaboration

Communication

Ethical Judgement

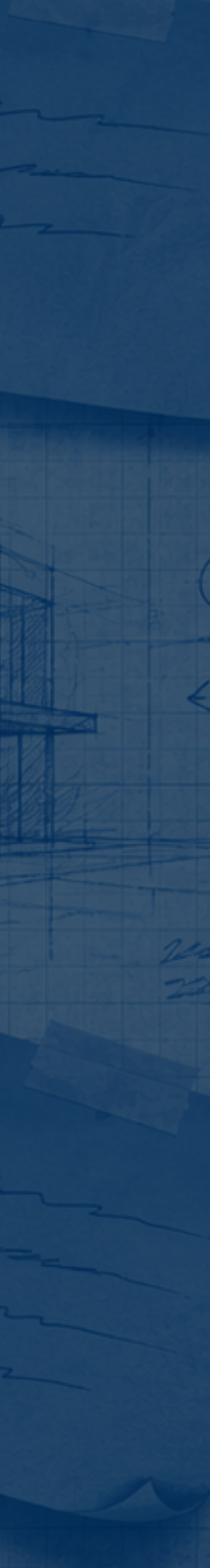
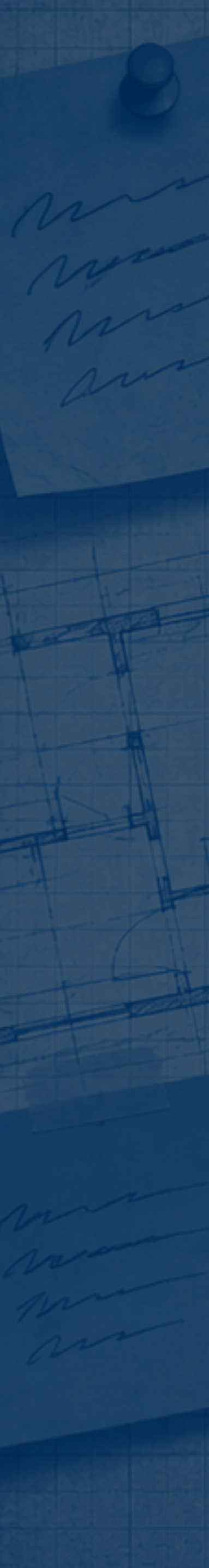




We aren't preparing students
for the jobs of the **FUTURE**.
We're preparing them to
thrive in jobs no one has
IMAGINED yet.









7 YEARS
EARLIER..

A

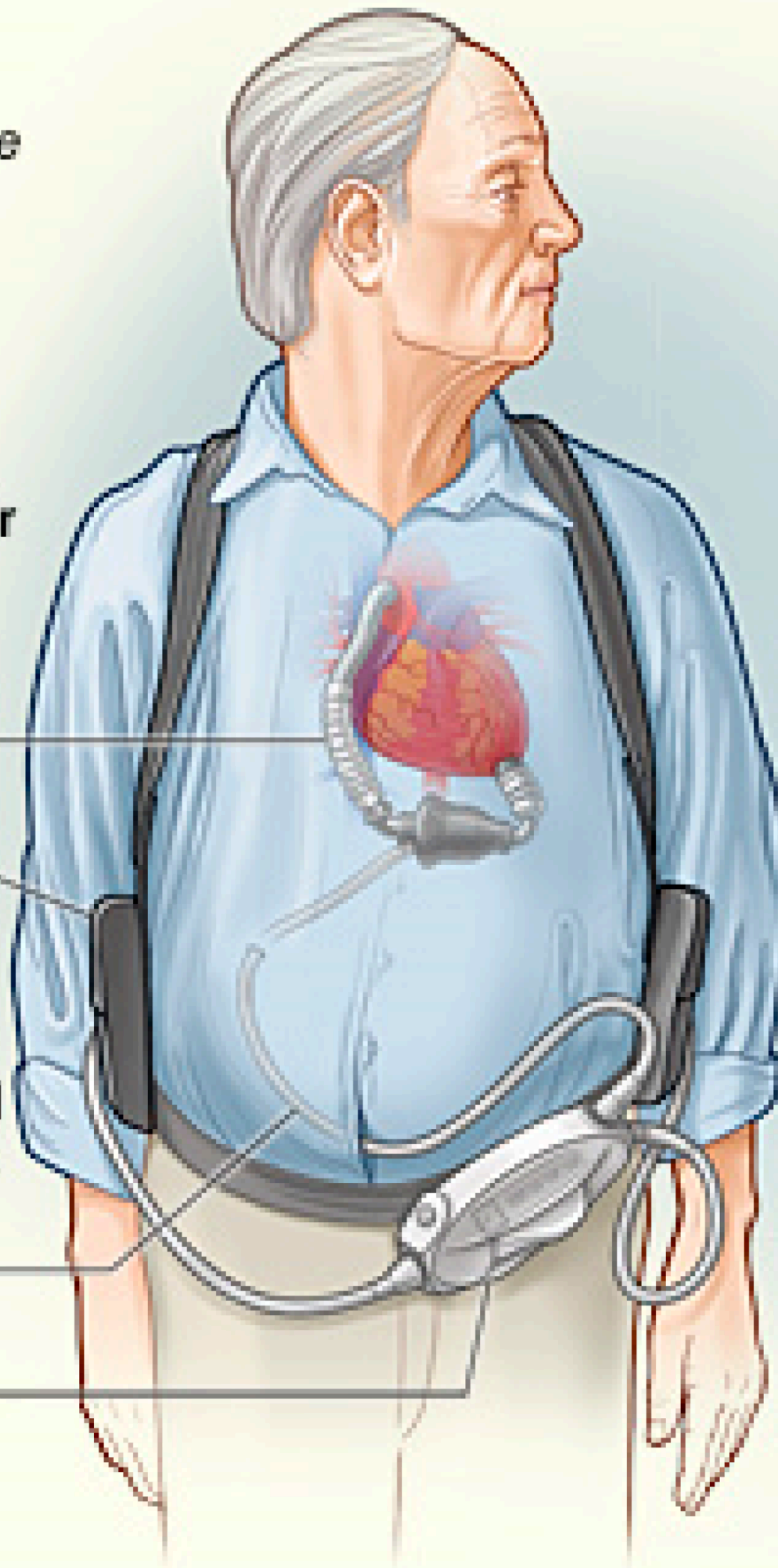
(Patients can be fully mobile)

Left ventricular assist device (LVAD) connected to heart

Battery

A cable connects the external control unit and internal LVAD through a small hole in the abdomen

Control unit



B

LVAD pumps blood into the aorta (to the body)

Outflow graft

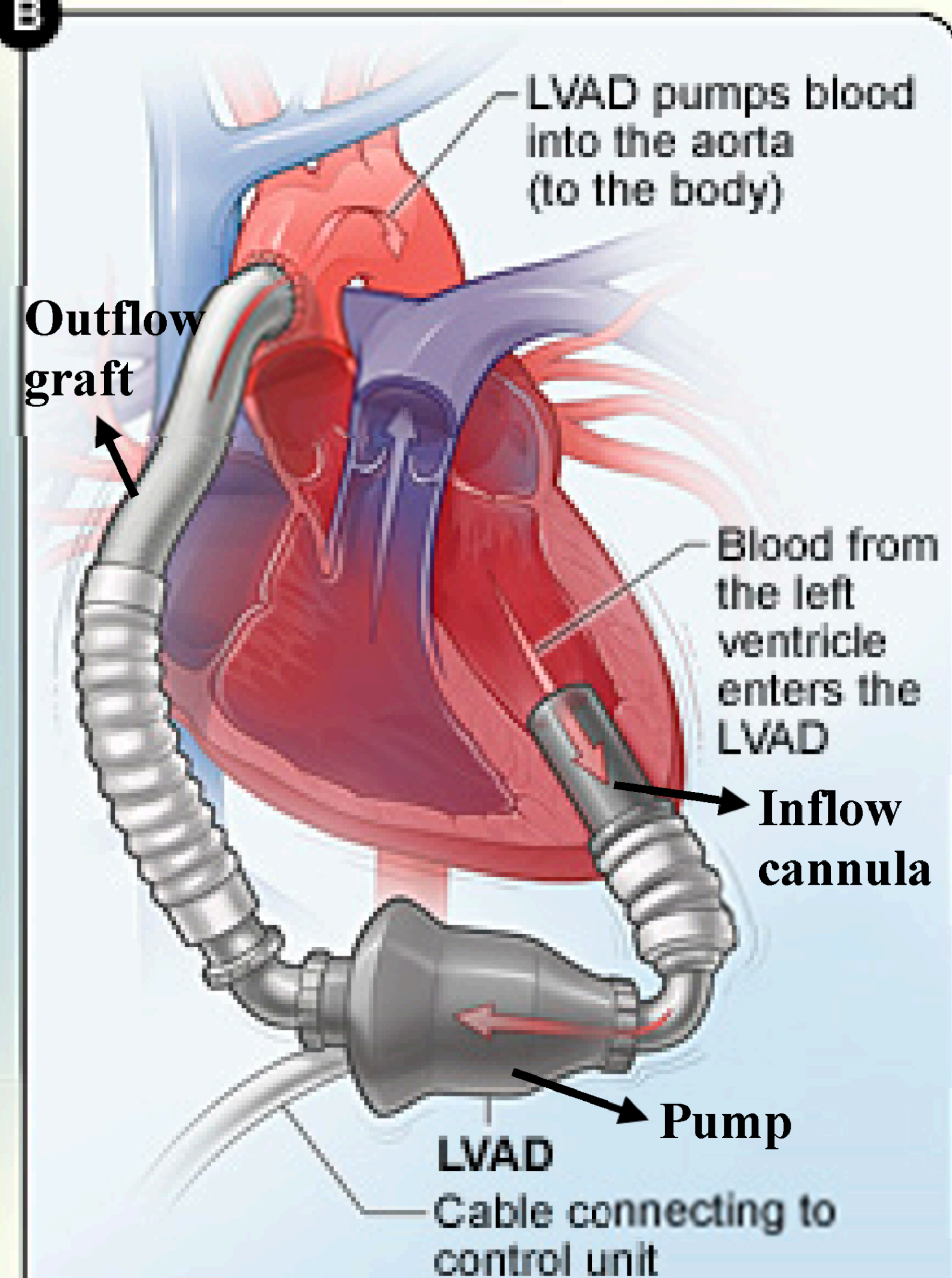
Blood from the left ventricle enters the LVAD

Inflow cannula

Pump

LVAD

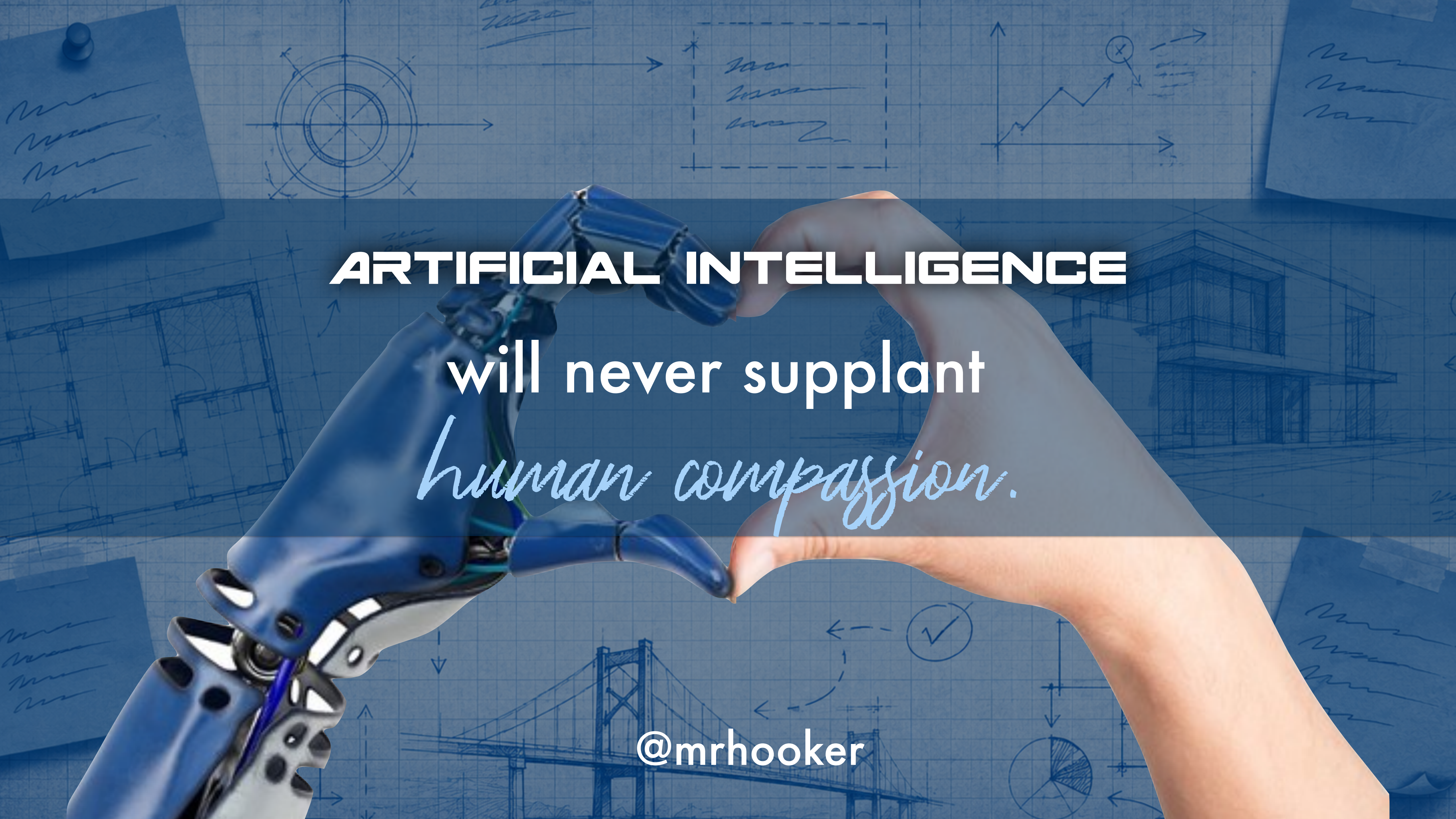
Cable connecting to control unit



Heart is shown in cross-section





The image features a blue robotic hand and a human hand positioned to form a heart shape. The background is a collage of blue-toned technical sketches, including architectural drawings of buildings and bridges, a target diagram, a line graph, and various handwritten notes on sticky papers. The overall theme is the intersection of technology and human creativity.

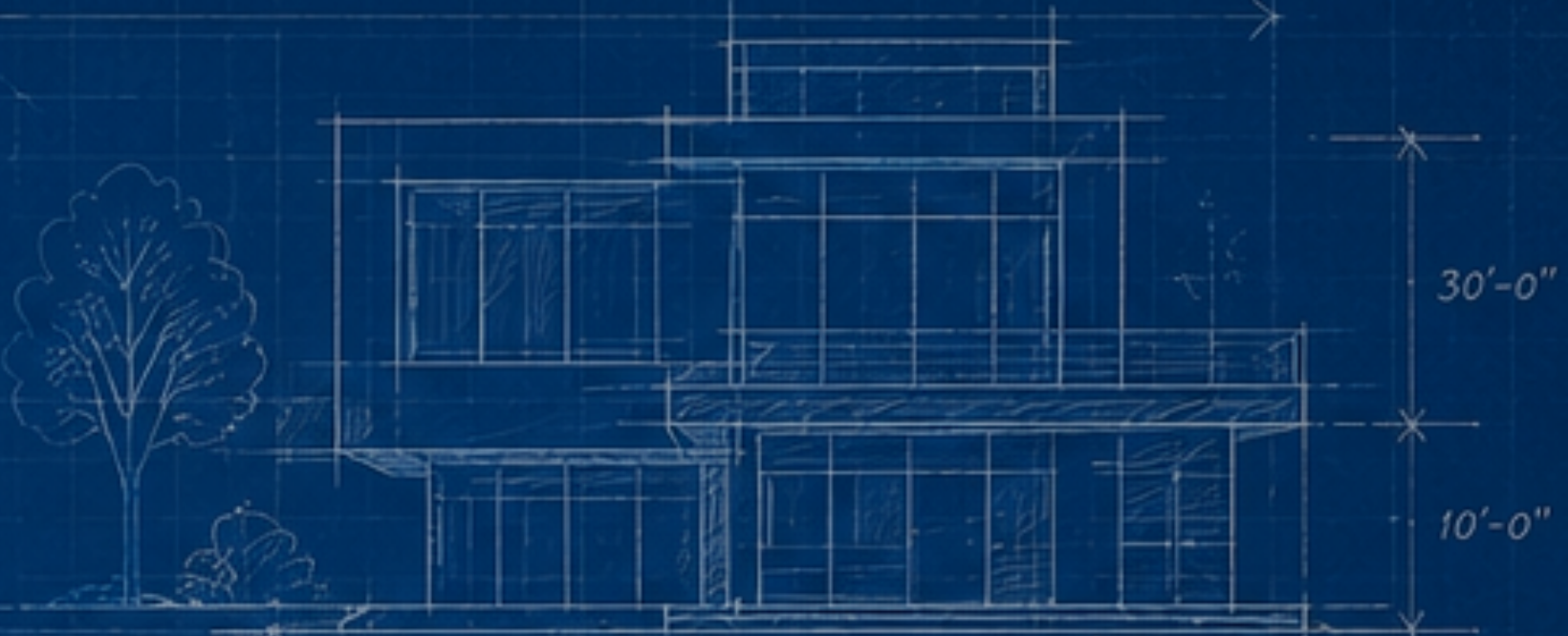
ARTIFICIAL INTELLIGENCE

will never supplant
human compassion.

@mrhooker

FOUNDATION FOR THE FUTURE.

- DESIGN
- LEARN
- ADAPT
- INNOVATE
- INSPIRE



FRONT ELEVATION

IT'S TIME TO DESIGN FOR WHAT'S NEXT

FLOOR PLAN

DETAIL

- STEEL BEAM
- CONCRETE SLAB
- INSULATION
- GLAZING SYSTEM
- FINISH FLOOR
- STEEL COLUMN

NOTES:

- PURPOSE DRIVEN
- PEOPLE CENTERED

BLUEPRINT FOR

APPROVED

LEGEND

- EXISTING
- NEW CONSTRUCTION
- STRUCTURAL

SECTION A-A

10'-0"
10'-0"
10'-0"

FOUNDATION FOR THE FUTURE.

- DESIGN
- LEARN
- ADAPT
- INNOVATE
- INSPIRE



FRONT ELEVATION

ONE MORE THING....

FLOOR PLAN

DETAIL

STEEL BEAM
CONCRETE SLAB
INSULATION
GLAZING SYSTEM
FINISH FLOOR
STEEL COLUMN

NOTES:

- PURPOSE DRIVEN
- PEOPLE CENTERED

BLUEPRINT FOR

LEGEND

- EXISTING
- NEW CONSTRUCTION
- STRUCTURAL



THANK YOU!

Slides & resources:
mrhook.it/gritc



mrhook.it/link



carl@hookertech.com



[@hookertech](https://www.instagram.com/hookertech)