

AI Meets Apprenticeship:

THE FUTURE OF WBL INSTRUCTION



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Jason Van Nus

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ABOUT ME



JASON VAN NUS

Director of Work-Based Learning and Youth
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2023 Georgia ACTE Teacher of the Year & Finalist for 2025 ACTE National Teacher of the Year, Jason is a WBL/YAP director who is passionate about working with students, employers, and industry toward robust workforce and economic development. Jason is renowned for his visionary and innovative practices. His Youth Apprenticeship program & creative industry partnerships have garnered national attention & presentation requests from Alabama, Florida, Iowa, Mississippi, New York, Tennessee, Utah, Virginia, Texas, Milwaukee, and Maryland. Supreme to all of these accomplishments, however, is the impact that Jason's program has had on his students, who've obtained new opportunities, robust training, increased earning potential, and better career outlooks through his WBL program.



WHY EMBRACE AI IN CAREER EDUCATION?

Toothpaste back in the tube - AI is here to stay!

- if available in workforce...part of our training
- AI is the newest Employability Skill
- students already using it

Enhancement, not replacement

- encourage critical thinking
- push educational assessment toward defense of work & away from creation of work
- your 2nd Brain

WHY EMBRACE AI IN CAREER EDUCATION?

Bridging educational gaps

- personalized/tailored learning experienced
- supports differentiated learning
- also equity gaps

Save Educators Time

- Reduce administrative burdens
- material creation (simple or complex)
- brainstorming ideas

WHY EMBRACE AI IN CAREER EDUCATION?

Education Week
Article #1 on AI



Education Week
Article #2 on AI



CTE IS MORE INSULATED FROM JOB LOSS

What we were told: Prioritize Academics

- AI is coming...teach all your students math, science, Computer Science, coding, programming, cybersecurity, etc.

What actually happened: Prioritized Trades

- AI can do it's own math, science, code, and programming
- But it cannot build it's own data centers
 - It can't run conduit and pull wire.
 - It can't install HVAC

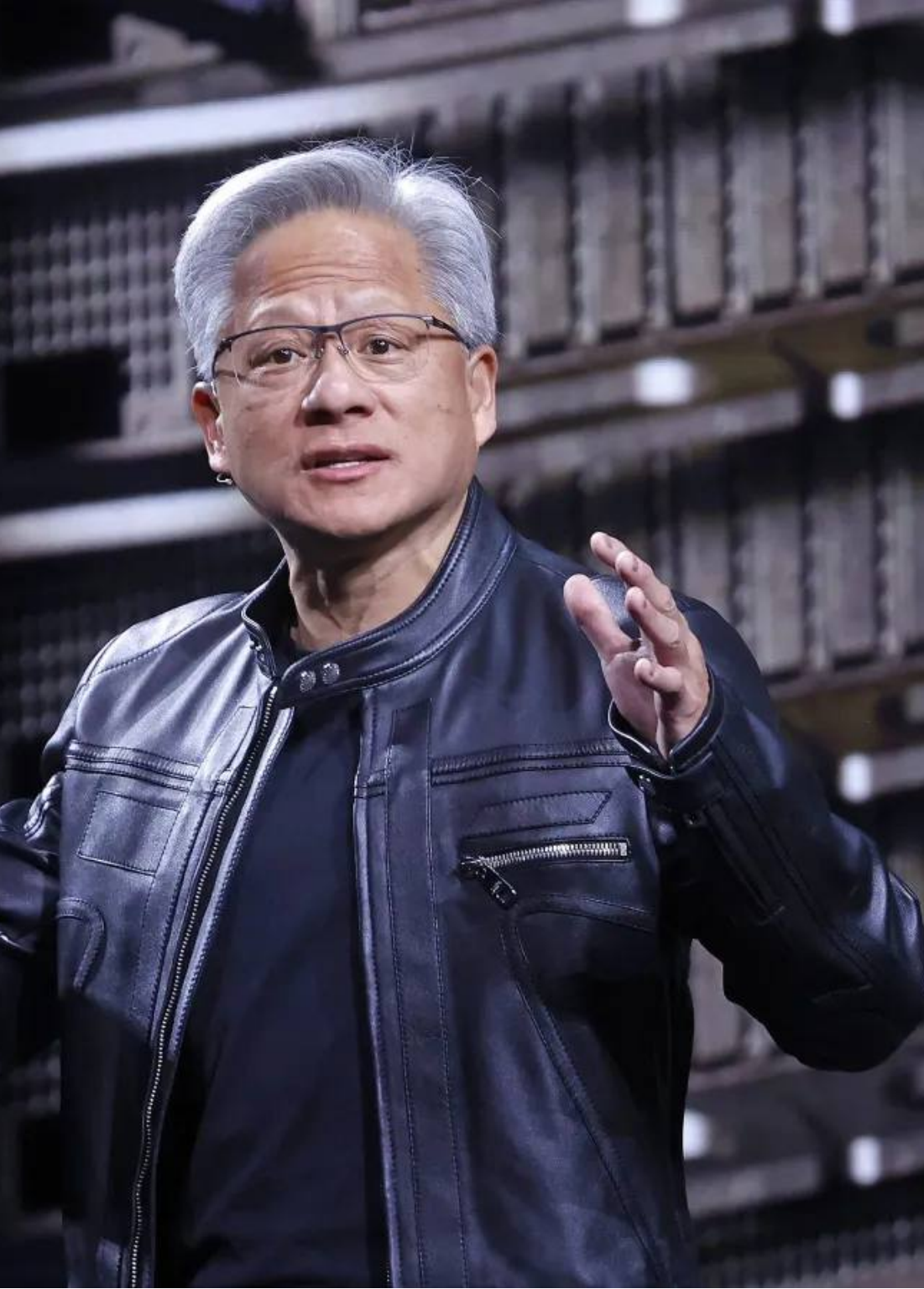
CTE/WBL FUTURE PROOF?

No! But it is anti-fragile!

- CTE has been preparing for AI for 100+ years

What AI cannot do:

- Replace on-the-job learning
- Teach workplace culture/trust
- Replicate mentorship
- Provide tactile or technical skill mastery
- Replace the economy's need for real workers in real places



Jensen Huang, NVIDIA CEO, on Skilled-Trades:

“THE SKILLED CRAFT SEGMENT OF EVERY ECONOMY IS GOING TO SEE A BOOM. YOU’RE GOING TO HAVE TO BE DOUBLING AND DOUBLING AND DOUBLING EVERY SINGLE YEAR.”

“IF YOU’RE AN ELECTRICIAN, YOU’RE A PLUMBER, A CARPENTER — WE’RE GOING TO NEED HUNDREDS OF THOUSANDS OF THEM TO BUILD ALL OF THESE FACTORIES.”

CAUTIONS FOR AI IN EDUCATION?

- Privacy and Data Security
- Assessment integrity
- Automation = Atrophy
 - hinders ability to critically evaluate work
- Altered attention spans
- Lack of Pedagogy as an epistemology
 - reduced friction tolerances
- AI Hallucinations

AI ETHICS IN CTE/WBL



- Be Transparent
- Protect Proprietary and Personal Information
 - FERPA and Sensitive Business Information (SBI)
 - No Upload Zone
- Use AI for augmentation...NOT Replacement!
 - Draft, not the final product
 - Verify, check, confirm, etc.
- AI cannot override compliance
 - OSHA, NATE, NEC, ASE, etc.
 - AI advice cannot contradict training

AI & The WBL Continuum

Grade Level

Sustained interactions with industry or community professionals in real workplace settings, to the extent practicable, or simulated environments at an educational institution that foster in-depth, firsthand engagement with the tasks required in each career field that are aligned to curriculum and instructions.

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AI & The WBL Continuum

Grade Level

K-5

"Exposure"

6-9

"Exploration"

10-12

"Experience"

How can AI facilitate this GOAL at each level?

K-5

"Exposure"

Custom Curriculum

Guest Speakers

Employer Interactions

Books

Games

6-9

"Exploration"

Field trips

Site Visits

Job shadowing

Industry Tours

Career Fairs

10-12

"Experience"

Work Placement (paid)

Job Shadowing

Advocacy Events

Job Fairs

K-5

"Exposure"

AI Activities / Softwares

Custom Curriculum

>>>> [Curipod.com](https://www.curipod.com)

Guest Speakers

>>>> [animaker.com](https://www.animaker.com)

Employer Interactions

>>>> [animaker.com](https://www.animaker.com)

Books

Games

6-9

"Exploration"

AI Activities / Softwares

Field trips/Site Visits

>>>>> AR / VR Solutions (\$)

Hands-on practice

>>>>> AR / VR Solutions (\$)

Career Fairs

>>>>> Schoolai.com -or- animaker.com

Industry Tours

>>>>> AR / VR Solutions (\$)

Job Shadowing

>>>>> Virtual Job Shadow (Pathful) (\$)

Research

>>>>> Perplexity -or- ChatGPT/Gemini

IO-I2

"Experience"

AI Activities / Softwares

Work Placement (paid)

>>>>> In-person

Advocacy Events:

Job Fairs

>>>>> schoolai.com, Interview Warmup

Mock Interviews

>>>>> schoolai.com, Interview Warmup

Resume Prep

>>>>> resumaker.ai

Variety of applications

>>>>> ChatGPT, Perplexity, or Gemini

ChatGPT / Gemini

-vs-

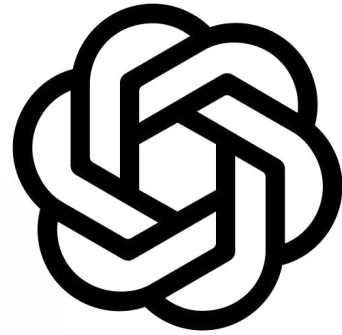
Perplexity

MAIN PLAYERS:

Design

Application

Type of Question



ChatGPT



Gemini



Perplexity

- Higher Brain Power

- Creativity-based

- What thumbnail image makes sense for a video on AI and WBL?

- Accurate info

- Research-based

- How much wine can I drink after an ambien?

CHATGPT



- Compare job posting to students resume
- Analyze resume for gaps with desired job
- Analyze resume for potential interview ?'s
- Summarize LinkedIn profile for analysis
- Analyze LinkedIn profile: employer perspective

TRY THESE PROMPTS:

- WBL Student Support:

- Compare job posting to students resume, what's missing?
- Generate five likely interview questions for this job

- WBL Teacher Support:

- Write a safety training quiz based on this handbook
- Draft a training plan for a 17-year-old apprentice in HVAC

- WBL Employer Engagement:

- Draft an email pitch inviting employers to participate in a "Reverse Career Fair"
- Write a LinkedIn Script for my #31in31 post...(provide details)

PERPLEXITY



- Career Research and Exploration
- Industry Trend Analysis
- Job openings in industry (current -v- projected)
- Data Interpretation
- Company Research (for internship)

curipod.com

CURIPOD.COM

Curipod is an AI-powered educational platform designed to help teachers create and deliver interactive lessons that enhance student engagement and participation. Its key features include:

AI-Generated Lesson Plans: Teachers can input a topic or standard, and Curipod's AI generates comprehensive lesson plans complete with instructional slides and activities.

Interactive Student Activities: The platform offers various activities such as polls, drawings, and word clouds to encourage active student involvement and critical thinking.

Real-Time AI Feedback: Curipod provides immediate, rubric-aligned feedback to students, helping them understand their progress and areas for improvement.

Comprehensive Reporting: Teachers receive AI-generated reports summarizing student understandings and misconceptions, offering actionable insights to guide future instruction.

Lesson Translation: Curipod allows for lesson translations, supporting diverse classrooms and English Language Learners (ELLs).

Curipod offers a free plan with essential features, while schools and districts can opt for customized plans that include premium content, student insights, and priority support.

Schoolai.com

SCHOOL AI

SchoolAI offers adaptive learning tools that cater to each student's unique needs, fostering personalized and engaging educational journeys. Teachers benefit from features like AI-assisted lesson planning, activity brainstorming, and actionable student insights, streamlining instructional tasks and allowing more focus on teaching. School ai also provides comprehensive data analytics, providing a clear overview of student progress and school performance.

SchoolAI prioritizes student safety by monitoring for signs of bullying, abuse, and neglect, ensuring timely interventions when necessary.

The platform is committed to privacy and security, adhering to FERPA and COPPA regulations, and maintaining certifications like 1EdTech and

SCHOOL AI - SIDEKICK

Purpose: Acts as a personal AI assistant for students, providing individualized support.

Functionality:

- Answers student questions across various topics.
- Assists in solving mathematical problems.
- Simplifies complex subjects for better understanding.
- Engages in discussions on challenging or sensitive topics within a safe environment.

Teacher's Role: Educators can monitor all interactions to track student activity and progress.

SCHOOL AI - SPACE

Purpose: Provides customized, interactive learning experiences tailored to specific educational objectives.

Functionality:

- Allows teachers to create AI-powered activities, such as role-playing with historical figures or topic explorations.
- Enables students to engage in personalized learning at their own pace.
- Teachers can monitor student engagement, sentiment, and learning outcomes through a comprehensive dashboard.

Teacher's Role: Educators design and oversee these learning experiences, adjusting them based on real-time insights.



**Demo
Time!**



SAMPLE: INTERVIEW WARMUP

SAMPLE:
CURIPOD



SAMPLE SCHOOLAI MOCK INTERVIEW SPACE



AWSM-LR8U

W/ COACHING



AWSM-M2BV

W/O COACHING

REVERSE CAREER FAIR PREP

YOUSCIENCE REVIEW INSTRUCTIONS

Ask which YS domains the bot thinks would best align with your chosen career.

Then input data into {AI} and ask for specific ideas how to market your skill sets.

GEMINI OR GPT SCRIPT:

I am participating in a Reverse Career where I am tasked with creating a booth that markets/advocates my skillset.

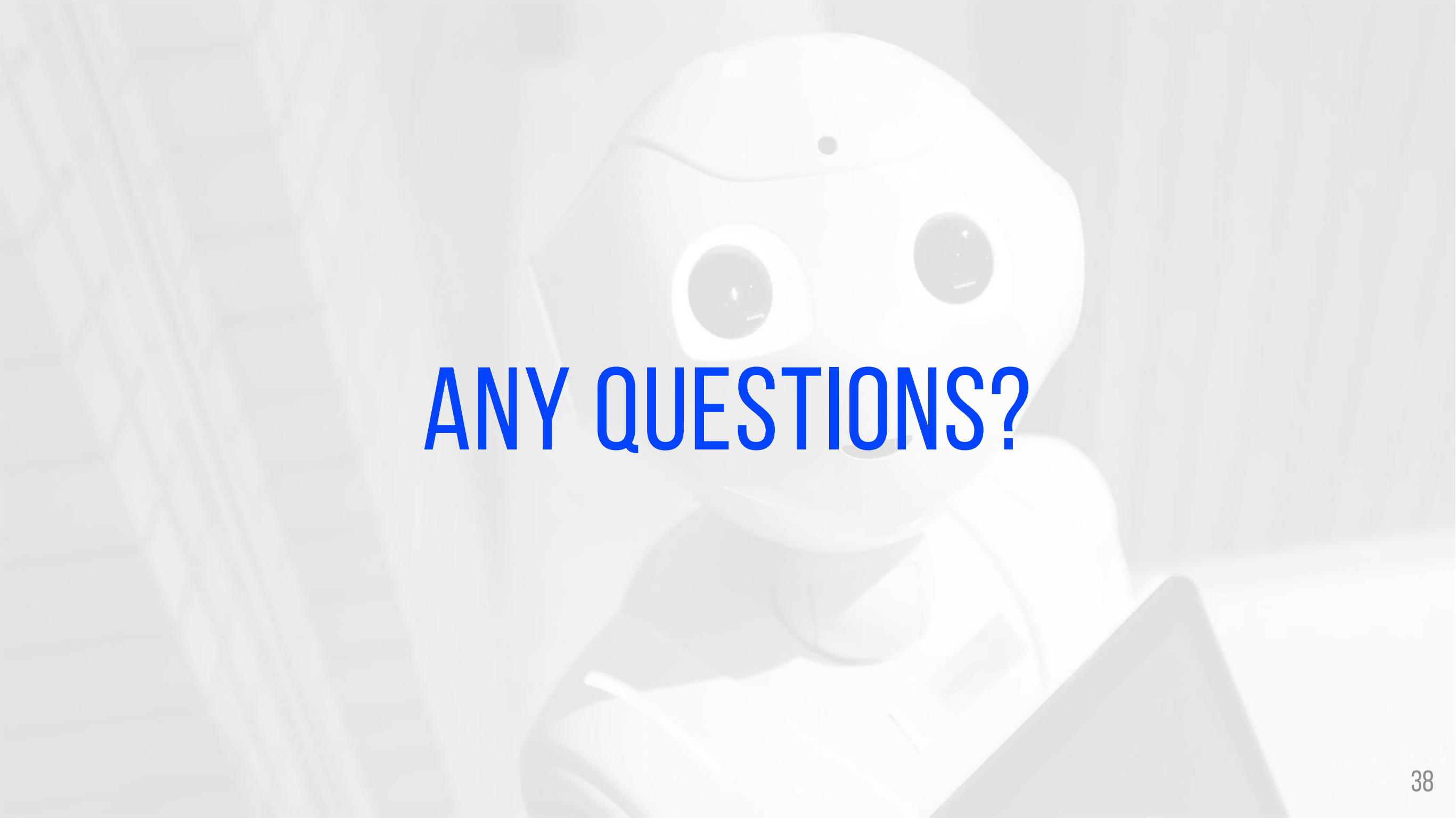
I have chosen the career of {Career}.

Help me brainstorm a few creative design ideas for my booth.

SAMPLE SCHOOLAI UNDERSTANDING YOUR YOUSCIENCE



AWSM-VGD1

A white, friendly-looking robot with large, circular eyes and a small antenna on its head. It is positioned behind a laptop, looking towards the screen. The background is a blurred office setting with a window and a desk.

ANY QUESTIONS?



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