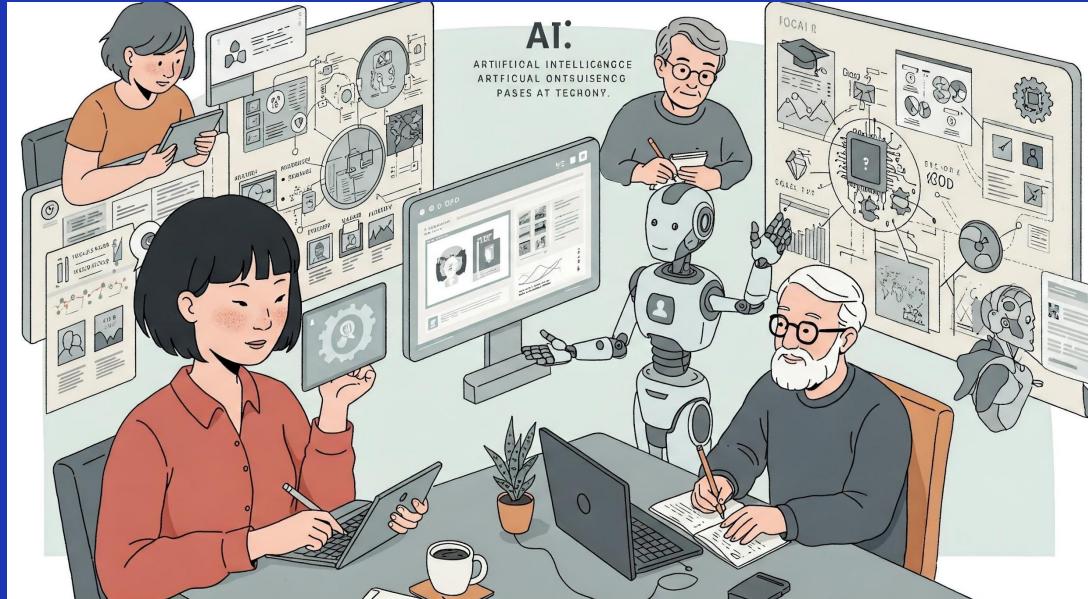


Decoding AI: Today & Tomorrow



2/23/2025

Bob Hong

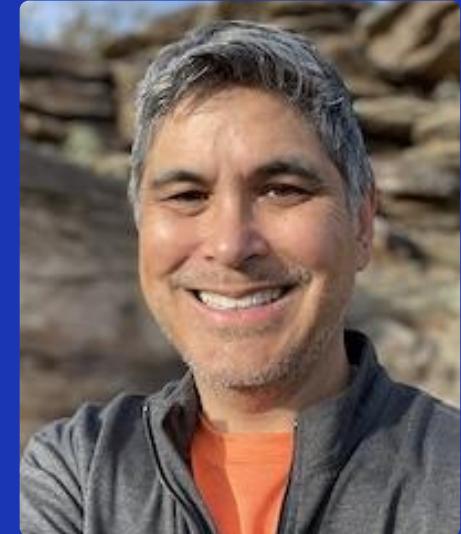
Cloud Platform Software Architect at
Rockwell Automation

30+ years developing and operating mission-critical software for major corporations in Financial and Manufacturing Sectors

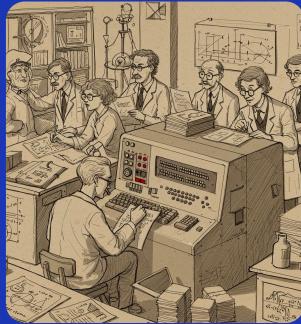
Leading engineering for an internal container platform running 1000s of services in Azure, AWS, and private data centers across the globe

Works from  and lives in Williamston, Mi

Married to Melissa, with 3 children, 3 grandkids, and 1  Sunny.



A brief History of AI



1950s-1970s

The Dawn of
AI



1980s-1990

AI Winter
and Expert
Systems



2000s-2020s

Machine
Learning and
Deep Learning
Revolution



2025-2035

The Age of
AI
Integration

AI in Healthcare
Revolutionizes Diagnostics
and Patient Care

AI Deepfakes Threaten Elections and Truth

Trust in AI Varies Across Countries
and Economies

Digital Democracy Faces Challenges
from AI Manipulation Tools

Americans Struggle to Identify Everyday Uses of AI

AI-Enhanced Manufacturing Boosts Productivity Education Tops List of Areas Where AI Will Improve Lives Globally

AI in the News



Job Disruption from AI Automation Sparks Upskilling Efforts

Global Public Expects
Profound AI Changes in
Next 3-5 Years

Public Concern Grows Over AI's Role in Daily Life
AI's Growing Role in Environmental Sustainability
Efforts Highlighted

AI's Role in Climate Change
Mitigation Gains Traction

AI Won't Replace Humans – But Humans With AI Will Replace Humans Without AI

600,000+ PROMPT ENGINEERING JOBS
PREDICTED BY 2030



<https://hbr.org/2023/08/ai-wont-replace-humans-but-humans-with-ai-will-replace-humans-without-ai>

So, what exactly do you do?





You must *unlearn* what you have learned.

Chatbot 101

What can I help with?

Message ChatGPT



Search



Reason



Create image



Summarize text



Brainstorm



Analyze data

More



How about?

Writing and Communication

- Compose emails
- Proofread and suggest
- Rewrite for tone or style

Creativity & Fun

- Write a story or poem
- Make music
- Create artwork
- Make and play an Adventure Game

Personal Organization

- Organize a party
- Plan a trip and suggest activities
- Prioritize todo lists

Learning and Research

- Explain how to solve a complex math problem
- Analyze research papers, literature, history, and simplify complex topics
- Data analysis & presentation
- Suggest books to read

Intelligent Writing Tools

Ideas for Presentation ➔ Inbox ⭐

 **Bob Hong** 6:36 PM
to me ▾

Hi, I was just thinking we should pre-record some demos using Loom as a mitigation for possible connectivity issues.



I think that's a great idea! I think that's a good idea.

Reply Forward ⚡

Apple Intelligence

Overview iOS 18 iPad

Describe your change

Proofread Rewrite

Friendly Professional Concise

Summary Key Points Table List

Compose...

Transform how you communicate using intelligent **Writing Tools** that can proofread your text, rewrite different versions until the tone and wording are just right, and summarize selected text with a tap. Writing Tools are available nearly everywhere you write, including third-party apps.

Create a set of Dungeons and Dragons themed achievement badge images for elementary school kids.



Create your own chat-based Adventure Game



D

Dungeon Quest • Custom Gem

Elara pulls out her small guidebook, flipping through the pages to the section on Shriekers. The guidebook describes Shriekers as territorial creatures, prone to attack if their territory is invaded or if they sense a threat. It also mentions their sensitivity to bright light and loud noises.¹ Sneaking by is possible, but risky, as Shriekers have keen hearing. Scaring it off might work, but could also provoke it to attack. ^

1. Shrieker - Monsters - D&D Beyond



www.dndbeyond.com

consult the guidebook to see if the Shrieker is likely to attack, if we can sneak by, or scare it off

What do you do?

↶ ↷ C ↲ :



Enter a prompt for Gemini



Google Labs

Labs.google/fx

FAQ



Don't settle for ordinary.

Create *anything.*



Whisk

Prompt less, play more

LAUNCH WHISK ➔

VideoFX

Inspire your inner storyteller by generating videos

JOIN THE WAITLIST ➔

WATCH SAMPLES ➔

ImageFX

Transform your ideas from text to images

LAUNCH IMAGEFX ➔

MusicFX

Bring new musical ideas to life

LAUNCH MUSICFX ➔

ImageFX - generate in any style

ImageFX

4 / 4

FJ40 white with oversized tires off roading in muddy terrain

Create

More 35mm film minimal sketchy

handmade abstract chiaroscuro

Edit history Settings



Whisk - Image Mashups



<https://labs.google/fx/library?type=whisk>

MusicFX

Perplexity - the New search

perplexity

New Thread ⌘ K

Home Discover Spaces Library

- How does Grok 3 handle etc...
- Assess nutritional content...
- How to check dns provider...
- Explain the delta plane cras...
- What are the effects of this...

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Download X



Brain Decoder Reads Thoughts

Curated by dailymag
3 min read

4 minutes ago 108 2

According to researchers at The University of Texas at Austin, an innovative AI-driven brain decoder can now translate a person's thoughts into coherent text with just a quick brain scan and minimal training, offering new hope for enhanced communication in individuals with language disorders such as aphasia.

Introduction

- Brain-to-Text Breakthrough
- Cross-Participant Semantic Decoding
- Applications for Communication Disorders
- fMRI and Transformer Integration

Ask follow-up

?

Personal Research - Notebook LM

Briefing for Alien Visitors: Understanding Earth

Share Settings

Sources

- Innovation and culture | Artificial In...
- Introducing the Anthropic Economi...
- Public interest AI | Artificial Intellige...
- Sample AI Prompts
- Statement from Dario Amodei on t...
- Trust in AI | Artificial Intelligence A...
- future-catastrophic-risks.md
- global-catastrophes-analysis.md
- <https://assets.anthropic.com/m/2e2...>
- <https://stvp.stanford.edu/wp-conten...>
- risk-mitigation-strategies.md

Chat



Briefing for Alien Visitors: Understanding Earth

13 sources

These sources provide insight into the advancements, governance, and economic implications of artificial intelligence. They discuss the transformative potential of AI in reshaping labor markets and underscore the importance of responsible AI development. The documents highlight global efforts to establish AI governance frameworks, promote innovation, and ensure public trust in AI technologies. One paper analyzes AI usage across various economic tasks and occupations, revealing patterns of automation and augmentation in the workforce. A conversation with Sam Altman explores the opportunities, risks, and deployment strategies related to artificial general intelligence (AGI).

[Save to note](#) [Add note](#) [Audio Overview](#) [Briefing doc](#)

Start typing... 13 sources

What impact might AI have on the nature of work, now and futuristically?

Studio

Audio Overview

Briefing for Alien Visitors: Und...

01:41 / 21:19

Interactive mode (BETA)

Notes

+ Add note

Study guide Briefing doc

FAQ Timeline

- Timeline of Global Events and Key AI Figures**
Okay, here is a detailed timeline of the main events covered in the provided sources, followed by a cast...
- AI and Global Challenges: Study Guide**
AI and Global Challenges: A Study Guide Quiz Answer the following questions in 2-3 sentences each....
- AI, Global Risks, and Societal Impact: A Briefing...**
Okay, here's a briefing document summarizing the key themes and ideas from the provided sources....

Thank You!



Bonus Content



<https://bit.ly/4hPbqCE>