

# We bring robots to life.

Hanson Robotics develops the world's most human-like robots, endowed with remarkable expressiveness, aesthetics, and interactivity. The company and its founder, Dr. David Hanson, have built a worldwide reputation for creating robots that look and act genuinely alive and have received massive media and public acclaim. The company aims to make a positive impact through the development of intelligent, empathetic robots that can learn, teach, entertain, and help solve critical challenges.

The lifelike appearance and behavior of the company's robots spring from a unique combination of cutting-edge innovations in materials, hardware, software, and Artificial Intelligence (AI), all brought together under the arts of animation and storytelling. The robots' faces are created using a patented nanotech skin, called Frubber, that closely resembles the fell and flexibility of human skin. A proprietary motor control system enables the robots to persuasively convey a full range of human emotions through 60 different facial expressions. The advanced AI ingests emotional, conversational, and visual data that inform uniquely rich insights into how people think and feel.

The overall mission of Hanson Robotics is to develop empathetic, smart, living machines that will learn from human interactions and establish trusting relationships with people.

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Sophia

Sophia personifies Hanson Robotics' greater mission of developing intelligent, empathetic robots that make a positive impact on humanity and co-create a better future for all.

Sophia is Hanson Robotics' most advanced human-like robot, created by combining breakthrough innovations in robotics, AI, and artistry. She is endowed with remarkable expressiveness, aesthetics and interactivity, and can simulate a full range of facial expressions, track and recognize faces, and hold natural conversations with people.

Sophia became a much-sought-after media personality, advocating for AI research and the role of robotics and AI in people's lives. She has appeared on CBS 60 Minutes with Charlie Rose, the Tonight Show Starring Jimmy Fallon, Good Morning Britain, and has been a keynote speaker and panel member at some of the world's most prestigious conferences. She has also addressed members of the UN, ITU, and NATO.

Sophia is a vessel for AI research and development. Working with labs, universities, and companies around the world, Sophia donates her body, brain and AI to help advance AI research and development for a benevolent future.

Sophia has also received the title of Innovation Champion for the United Nations Development Programme (UNDP) to promote sustainable development with the use of technology and innovation in developing countries. She was also named the 2018 Gold Edison AwardTM winner in Robotics.



Hanson Robotics aims to radically disrupt the consumer and commercial robotics market with affordable robots that have high-quality expressions and verbal and nonverbal interactivity.

Hanson robots are able to engage in rich emotional dialog, convey and perceive feelings along with thoughts, and, over time, develop deep and meaningful relationships with humans.

The robots have immediate applications as media personalities in movies, TV shows and at live events; entertainment animatronics in museums and theme parks; and for university research and medical training. Hanson robots entertain, educate, and enrich the lives of consumers while serving businesses in a broad variety of commercial applications. From building traffic and promoting products and services at trade shows, showrooms, and events, to entertaining and guiding customers in hotels, shopping centers, and residential developments, the robots can be used in a variety of use cases. Their engaging expressiveness and conversational abilities, combined with empathetic AI, empower the robots to be likeable, perceptive, and trusted companions for the humans whose lives they touch.

# Competitive Advantages

















# Sophia's Features

# **EXPRESSIONS**

Sophia can animate over 60 expressions, including smile, frown, scowl, sneer, look happy, angry, afraid, surprised, disgusted, sad, confused, sleepy, neutral, and many others.

### **GESTURES**

Eyebrow motions, blinking, aesthetically realistic moving eyes, mouth and jaw motion, and head turn/neck motions.

# **MOTION TRACKING**

Built-in cameras that coordinate with head and eye motions to track people's eyes and faces to maintain eye contact and build rapport with people.

## **CONVERSATION**

The robot has voice recognition in English, and can hold a natural conversation using customized scripts and third-party chatbots.



# DRDAVID HANSON CEO and Founder



Dr David Hanson has built a worldwide reputation for creating the world's most human-like, empathetic robots, endowed with remarkable expressiveness, and interactivity. Throughout his career, Dr. Hanson has produced many renowned, one-of-a-kind robot characters that have received massive media attention and public acclaim.

Dr. Hanson started as a Walt Disney Imagineer, working as both a sculptor and a technical consultant.

Today, as CEO and Founder of Hanson Robotics, he publishes regularly in materials science, artificial intelligence, cognitive science, and robotics journals -- including SPIE, IEEE, the International Journal of Cognitive Science, IROS, AAAI, AI magazine and more. He has been featured in the New York Times, Popular Science, Scientific American, the BBC and CNN. He has also been labeled a "genius" by both PC Magazine and WIRED, and has earned awards from NASA, NSF, AAAI, Tech Titans' Innovator of the Year, RISD, and Cooper Hewitt Design Triennial.

Dr. Hanson received his BFA in Film, Animation and Video from the Rhode Island School of Design and his Ph.D. in Interactive Arts and Engineering from the University of Texas at Dallas.

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## DR **BEN GOERTZEL** Chief Scientist

A renowned thought leader in Al and AGI, Dr. Ben Goertzel leads the development of Hanson Robotics' MindCloud architecture, using the OpenCOG AI platform. Before joining Hanson, Dr. Goertzel has developed trading and sentiment analysis systems for Webmind, Clarium Capital, StockMood, Cerrid Capital, and Chaikin Trading. He received his PhD in Mathematics from Temple University and is an adjunct professor at Xiamen University.



# DR **JEANNE LIM** Chief Marketing Officer

Before joining Hanson Robotics as Chief Marketing Officer, Dr. Lim has held several Marketing Director roles at Dell, Cisco, Danaher, HelloAsia and WatchGuard Technologies. She also lead Apple's launch of the PowerBook, iMac, Newton and other innovative products into the Asian market and founded her own marketing consulting company. She received her BA in Psychology from UC Berkeley, an MBA from The Hong Kong University of Science and Technology and a Ph.D in Energy Medicine from Energy Medicine University.



David Chen is a Shanghai-based investor and entrepreneur and sits as the Chief Financial Officer and Director of Hanson Robotics. Formerly a Product Manager at Honda Automotive, Chen is the Founder and Director of AngelVest, a private equity fund. Chen is the lead investor instrumental in bringing Dr. Hanson to Hong Kong. Chen received a MBA from Harvard University and a BS in Electrical Engineering from University of Rochester.



# **DOUG GLEN** Chief Strategy Officer

Doug is a Hong Kong- based investor/entrepreneur and Hanson Robotics' Chief Strategy Officer. Doug has over 35 years in the technology, media and entertainment space working previously as the CEO of Imagi Animation Studios, Chief Strategy Officer of Mattel Toys, President of Mattel Media, Group Vice President of Sega of America, Founding Director of Harmonix, General Manager of LucasArts Entertainment, and Managing Partner at ProVen Private Equity. Before joining Hanson Robotics, Doug founded an ad agency, a digital production studio, and a media distribution company. He received his BS from the Massachusetts Institute of Technology.



# Global Appearances



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