

Fusing Art and Tech: MORF Gallery CEO Scott Birnbaum on Digital Paintings, NFTs and More

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Browse through MORF Gallery — virtually or at an in-person exhibition — and you'll find robots that paint, digital dreamscape experiences, and fine art brought to life by visual effects.

The gallery showcases cutting-edge, one-of-a-kind artwork from award-winning artists who fuse their creative skills with AI, machine learning, robotics and neuroscience.

Scott Birnbaum, CEO and co-founder of MORF Gallery, a Silicon Valley startup, spoke with NVIDIA AI Podcast host Noah Kravitz about digital art, non-fungible tokens, as well as ArtStick, a plug-in device that turns any TV into a premium digital art gallery.

Artists featured by MORF Gallery create fine art using cutting-edge technology. For example, robots help with mundane tasks like painting backgrounds. Visual effects add movement to still paintings. And machine learning can help make NeoMasters — paintings based on original works that were once lost but resurrected or recreated with AI's help.

The digital art space offers new and expanding opportunities for artists, technologists, collectors and investors. For one, non-fungible tokens, Birnbaum says, have been gaining lots of attention recently. He gives an overview of NFTs and how they authenticate original pieces of digital art.

Paintbrushes, cameras, computers and AI are all technologies that “move the art world forward ... as extensions of human creativity.” — Scott Birnbaum [8:27]

“Technology is enabling creative artists to really push the boundaries of what their imaginations can allow.” — Scott Birnbaum [13:33]

Art(ificial) Intelligence: Pindar Van Arman Builds Robots That Paint

Pindar Van Arman, an American artist and roboticist, designs painting robots that explore the differences between human and computational creativity. Since his first system in 2005, he has built multiple artificially creative robots. The most famous, Cloud Painter, was awarded first place at Robotart 2018.

Real or Not Real? Attorney Steven Frank Uses Deep Learning to Authenticate Art

Steven Frank is a partner at the law firm Morgan Lewis, specializing in intellectual property and commercial technology law. He's also half of the husband-wife team that used convolutional neural networks to authenticate artistic masterpieces, including Da Vinci's Salvador Mundi , with AI's help.

Researchers Chris Downum and Leszek Pawlowicz Use Deep Learning to Accelerate Archaeology

Researchers in the Department of Anthropology at Northern Arizona University are using GPU-based deep learning algorithms to categorize sherds — tiny fragments of ancient pottery.

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