

2025



Gauntlet COA

Blockchain certificate of authenticity combating AI-generated art fraud using
Polygon NFT technology.

Polygon · Solidity · IPFS · ScoreDetect · Shopify

200+ Artworks Authenticated

AI Is Weaponizing Art Fraud



AI-Generated Forgeries

Generative AI produces convincing fake art in seconds. Traditional authentication can't keep pace.



Paper COAs Are Worthless

Paper certificates are easily forged, lost, or destroyed. No way to verify without contacting the issuer.



Provenance Gaps

Art changes hands multiple times. Each transfer is an opportunity for records to be lost or falsified.



Collector Trust Erosion

The \$450B art market depends on trust. As fraud tools improve, buyer confidence deteriorates.

A \$450B Market Under Siege

\$450B

Global art market—growing more
vulnerable to AI fraud

\$6B+

Estimated annual losses from art forgery
worldwide

50%+

Market participants report concerns
about AI-generated fakes

**Every art transaction depends on trust in authenticity. Blockchain provides what paper never could:
immutable, publicly verifiable proof of provenance that survives every transfer.**

Immutable Proof on the Blockchain



Polygon chosen for ~\$0.01/mint gas fees and Ethereum-level security. ScoreDetect adds tamper-proof timestamping.

Fraud-Proof Certificates for the AI Era

- NFT-Backed COAs** Immutable blockchain authentication
- QR Verification** Instant scan-to-verify for buyers
- IPFS Storage** Distributed, permanent metadata
- Shopify Integration** Auto-mint on purchase completion
- Transfer Tracking** Full provenance chain on-chain

TECH STACK

- BLOCKCHAIN**
Polygon (Ethereum L2)
- CONTRACT**
Solidity ERC-721
- STORAGE**
IPFS via Pinata
- COST/MINT**
~\$0.01 gas fee
- VERIFICATION**
QR → on-chain lookup

Authentication That Can't Be Faked

200+

Artworks cataloged with blockchain COAs

\$0.01

Average gas cost per certificate mint

∞

Certificate lifespan—immutable on-chain forever

< 2 SEC

QR scan to full verification

First independent gallery to deploy production blockchain COAs—enterprise-grade authentication

KEY TAKEAWAY

Gauntlet COA applies blockchain beyond speculation—solving a real, growing fraud crisis in a \$450B market with sub-penny transaction costs.

Blockchain Dev

Solidity, Polygon, NFT standards

System Architecture

IPFS + on-chain + Shopify

Domain Expertise

Art market authentication needs