ARTIN

CASE STUDY: DIGITALIZING MANUFACTURING AND TECHNICAL DOCUMENTATION

A global technology group with manufacturing and R&D centers around the world.

An AI application that recognizes handwritten notes on technical drawings, automatically converts inches to millimeters and cuts processing time per drawing from 1–2 days to 30 minutes, with 90–95% accuracy.

CHALLENGE

The client manages an extensive archive of historical technical drawings with handwritten dimensions in imperial units. Manually transcribing and converting a single drawing took a qualified employee 1–2 days. The process needed to be automated while ensuring sensitive technical documentation was handled securely.

SOLUTION

- Desktop application with an intuitive interface for selecting areas to digitize
- AI handwriting recognition using an OpenAI Vision Language Model
- Automatic unit conversion from inches to millimeters
- Validation workflow – the user reviews and approves results before saving
- Modular architecture for easy swapping of the AI model (GDPR-ready)
- Human-in-the-loop design that keeps sensitive data under control

TEAM SIZE

AI consultant, .NET developer, PM

TECHNOLOGIES

.NET, OpenAI GPT (Vision), Azure Copilot planned

PROJECT DURATION

since 10/2025

GOT AN ARCHIVE WAITING TO BE DIGITIZED?

Get in touch.