



Artwork Super-Resolution Scanning Application

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Problem Statement

Artists need an affordable and robust method to produce true-to-life digital versions of their artwork for printing and archival purposes.



Requirements & Constraints

Functional

- Multiple uploaded images
- Image processing/stitching
- Border detection

Resource

- Visual Studio code
- Python

Economic

- Raspberry Pi camera
- Cheap hardware

UI Requirements

- Convenient GUI
- Image upload capability
- Scan button

Engineering Standards

IEEE 610.4-1990 : IEEE Standard
Glossary of Image Processing and
Pattern Recognition Terminology

IEEE 1857 : Standard for Second-
Generation IEEE 1857
Video Coding

IEEE 1858-2016 : IEEE Standard
for Camera Phone Image Quality



IEEE

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for Humanity*

Intended Users & Audience

Independent artists

Art galleries

Print Shops

Museums

