

Image to CAD Pipeline

CHAT-0213 / REV EXPORT-03 / 2026.03.10

A conversation-specific public summary of image to cad pipeline, distilled from the supplied export. The detailed excerpts remain available in the released note file.

STATUS	RECOVERED / SPECIFIC NOTE
CLASSIFICATION	SYS
MATERIAL	CHAT EXPORT / BUILD & TOOLS
DISPOSITION	PUBLIC CONVERSATION EXCERPTS / REDACTED
CATEGORY	Build & Tools
RECORD TYPE	build-thread

TECHNICAL NOTES

Conversation-specific knowledge extracted from the image to cad pipeline discussion.

CONVERSATION / QUESTION AND CONTEXT

Context: I am building a Python + FreeCAD automation system. Goal: Drop a hand sketch image into my launcher and automatically generate a FreeCAD model. Current setup: I already have a working launcher called: freecad_ai_launcher.py This launcher currently works when I type a text description of the part. Example: "Create a 4 x 8 plate, 1/2 thick, 4 holes 1/2 diameter 1.25 from edges" The launcher then: -> sends the prompt to AI -> generates a FreeCAD macro -> builds the CAD model automatically. So the text-to-CAD pi...

CONVERSATION / EXTRACTED GUIDANCE

1. *image -> part spec JSON / structured prompt -> your existing text-to-CAD pipeline
2. Use a hybrid pipeline, not OCR alone:
3. OpenCV preprocessing
4. geometry detection
5. dimension/text extraction
6. local vision model interpretation
7. rule-based reconciliation
8. output a clean structured prompt

SPECIFICATION

SOURCE	Supplied ChatGPT export
CATEGORY	Build & Tools
CONVERSATION	3 user turns / 3 assistant turns
ATTACHMENTS	12 references detected
PUBLIC DETAIL	Extracted knowledge + excerpts

DEVELOPMENT HISTORY

2026.03.10 / EXPORT-04

Matched to the supplied export; key guidance is surfaced separately and the raw transcript remains unpublished.

RELEASED MATERIAL / SOURCE LINKS

CHAT-0213-public-note.txt

PUBLIC-SAFE CONVERSATION NOTE / UNIQUE FILE

<https://u225x.com/downloads/chat-records/CHAT-0213-public-note.txt>

RETURN TO THE LIVING RECORD

Image to CAD Pipeline

This PDF preserves the public notes at this revision. Visit the record for updates and attached images.

<https://u225x.com/record/CHAT-0213>
