AI & Tools Appendix

Tool & Model: ChatGPT (GPT-5)
Date/Time Used: 2025-08-29 13:27

Purpose:

The AI assistant (ChatGPT) was used to support building a camera calibration pipeline in OpenCV with Gradio UI integration. It provided debugging help for undistortion previews, corrected calibration code, improved modularity, and generated supporting documentation (README.md, requirements.txt, and this appendix).

Prompts:

- I need to get the image of the checkerboard from https://docs.opencv.org/4.x/pattern.png

- Go through each step in the code: 1. Collect Calibration Images, 2. Run Camera Calibration, 3. Build a Gradio Inline UI...

- How do I do this: 1B. Tips for capturing your photos (no code)

- I have the images, where do I put them

- for this, my board was 10 cols and 7 rows and square size on paper was 6/7 inch

- Give me the entire fixed method for ui_run_calibration

- The results should be Results: calibration.json storing K, R, t, D, width, height. Do I have these right now?

- Why can I not just show the Undistortion preview after for one image. I have the before working, just need the after

- provide an updated ReadMe.md for this with installation and usage instructions

- How does this work if I dont have a requirements.txt file

- Give me this based on our convos: - AI & Tools Appendix in pdf format.