

COSC 455
Take Home Exam

1. Enhance the following images while minimizing undesirable artifacts. Provide an explanation that supports your choice of enhancement. In all cases, show the before and after effects.
 - a. ImageA
 - b. imageB

2. Propose and implement a method that will aid inspection of integrated circuit-boards to determine if a sampled IC-board (icB) is exactly like the standard IC-board (icA). The method should result in an intuitive visual inspection.

3. Enhance the following image (imageC). Your enhancements should not degrade the image quality.

4. Enhance imageD by sharpening its edges. Show the original, scaled, unscaled and sharpened image.

5. *This image (imageE) has been redacted. What was the redacted information?

What to turn in:

Your report (exam) should contain the following:

- Cover Page
 - Title
 - Course Number
 - Your Name
 - Due Date
 - Date submitted
 - Abstract (1/2 page maximum)
- Second Page
 - Technical discussion for problems (1-2 pages max)
- Third page to XXX page
 - Discussion your results for each problem. Show image results and supportive information. Label each image and refer to label in discussion.
- Appendix:
 - Source code listing for each function you wrote
 - Include citations