

Homework 3 (Due Apr. 19th)

- Problem #1 : Skin color detection
 - Find a headshot of yourself, use any algorithm you prefer (RGB, normalized RGB, HSV or compound algorithm) to mark the skin pixels. Explain what algorithm you used in your report.
 - Note: write your own algorithm, same requirement for all students (ME 456/556/556XE)

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- Problem #2 : Image halftoning
 - Perform Stucki error diffusion dithering for the picture shown, using the following error diffusion kernel
- $$h = \frac{1}{42} \begin{bmatrix} - & - & * & 8 & 4 \\ 2 & 4 & 8 & 4 & 2 \\ 1 & 2 & 4 & 2 & 1 \end{bmatrix}$$
- Hint: an example code of error diffusion can be found in Slide 11 of Lecture 14

