CP467

**Digital Image Processing**

**Assignment 2**

**Jashandeep Singh**

sing8282@mylaurier.ca

169018282

# Image Convolution from Scratch

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| Source Image |
|  | | |
|  |  |  |
| Task 1A: Average Smoothing Filter | Task 1B: Gaussian Smoothing | Task 1C: Sobel Sharpening Filter |
|  | | |
|  |  |  |
| Task 2A: Average Smoothing Filter | Task 2B: Gaussian Smoothing | Task 2C: Sobel Sharpening Filter |

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| --- | --- | --- |
|  |  |  |
| Source Image | Task 3A: Marr-Hildreth edge detector | Task 3B: Canny edge detector |