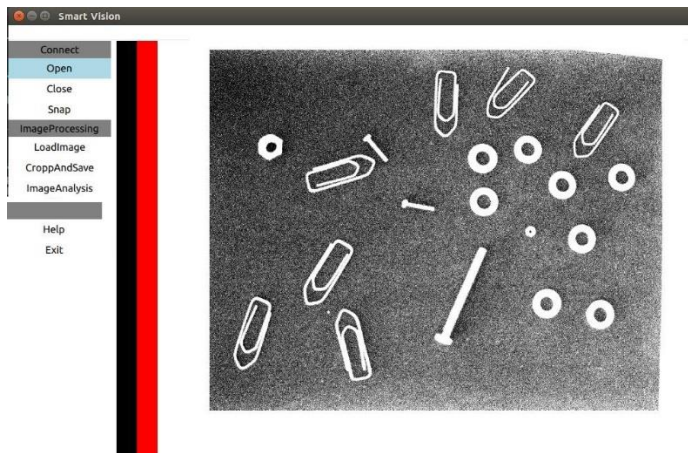COME 436: Project

Create a gui based vision system using python and QT (load your report and code)

Menu structure:

- Connect
  - Open (Open a USB or embedded camera for image processing)
  - Close (Close the connected camera)
  - Snap (Take snapshot from the opened and connected camera)
- Image Processing
  - Load Image (Load selected image from a harddisk)
  - CropandSave(Select region of interest, crop and save to hard disk)
  - Image Analysis
    - Convert to gray
    - Convert B&W
    - Take 2-d fast Fourier transform
    - Add noise
      - Gausian
      - Pepper&Salt
    - Filter
      - Mean
      - Median
      - Gaussian
    - Edges (find and display edges)
    - Corners (find and display edges)
- Help
- Exit