Installation Guide:

1. Install the SKyX
   1. Use valid Serial Number
   2. Run the SkyX as administrator (needs to be done once after install to register COM interfaces)
   3. Close the SkyX
2. Download and install Anaconda3 – this allows for running both Python2 and Python3
   1. https://www.continuum.io/downloads
   2. Install for all users on computer (when prompted)
   3. Add to path (when prompted, disregard warning)
3. Download and install Git
   1. <https://git-scm.com/>
4. Clone repository
   1. Open git bash
   2. Navigate to folder where you want to create the cloned project folder e.g. desktop
   3. git clone <https://github.com/mmiguel6288code/super-nova-search.git>
5. Install other python module dependencies
   1. Open Windows Command Line as administrator
   2. pip install imreg\_dft
   3. conda install -c astropy photutils ccdproc
6. If desiring to test with both Python2 and Python3:
   1. Set up Python2 environment inside of Anaconda
      1. Open terminal
      2. conda create -npy27 python=2.7 anaconda
   2. Switch to Python2 environment
      1. Open terminal
      2. activate py27
      3. Note this is only active for this terminal session, if you open another terminal window, it will start in the default environment
      4. Note that independencies need to be installed separately in this environment via conda/pip
   3. Switch back to default (Python3 environment)
      1. Open terminal
      2. Deactivate
   4. List all environments
      1. Open terminal
      2. conda info –envs
7. Test Python-SkyX integration
   1. Open the SkyX
   2. Go to Telescope
   3. Click Mount Setup
   4. Choose SoftwareBisque/Telescope Mount Simulator
   5. Go to Camera
   6. Click Camera Setup
   7. Enter Serial Number
   8. Enter valid Camera Serial Number
   9. Choose Camera
   10. SoftwareBisque/Camera Simulator
   11. Open git bash
   12. Navigate to project folder (super-nova-search)
   13. python run\_tests.py 1
   14. Script should start slewing and taking photos via simulated telescope and camera
8. Test Image Processing
   1. Copy test images folder to project local subfolder: super-nova-search/local/test\_images
   2. Open git bach
   3. Navigate to project folder (super-nova-search)
   4. python run\_tests.py 2
   5. Script should create additional folders under super-nova-search/local/test\_images containing image processing results