Research Log

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March 30, 2016	Established research log after 3 hours of learning new LaTeX
April 2, 2016	Added some additional comments to the **Process**
April 3, 2016	Have been reading [1] and [2]. Available at [3]. **Have Question for Kamangar** regarding [1] about difference between: • **Camera Plane** : Cooridinates u,v • **Focal Plane** : Cooridinates s,t
April 11, 2016	Reviewing blog articles located at: • `https://erget.wordpress.com/2014/02/01/calibrating-a-stereo-camera-with-opencv/` • `https://erget.wordpress.com/2014/02/28/calibrating-a-stereo-pair-with-python/` • `https://erget.wordpress.com/2014/03/13/building-an-interactive-gui-with-opencv/` • `https://erget.wordpress.com/2014/04/27/producing-3d-point-clouds-with-a-stereo-camera-in-opencv/` for process to get webcam up and running. Previous issues related to fine-tuning *block matching* parameters. Need to review sources at list at bottom of `http://docs.opencv.org/2.4/modules/calib3d/doc/camera_calibration_and_3d_reconstruction.html` to understand.
April 19, 2016	Made adjustments to python for image acquisition scripts (from blogs mentioned on April 11, 2016.) **NOTE:** Consider creating rig with glue to keep stereo camera placement / direction constant.

References

[1] Sing Bing Kang Heung-Yeung Shum, Shing-Chow Chan. *Image Based Rendering*, pages 9–13. Springer Publishing, 1 edition, 2007. Pages cited are Book Pages Numbers. Formula for PDF Page Number is (PDF Page Number = Book Page Number + 17).

[2] Sing Bing Kang Heung-Yeung Shum, Shing-Chow Chan. *Image Based Rendering*, pages 23–27. Springer Publishing, 1 edition, 2007. Pages cited are Book Pages Numbers. Formula for PDF Page Number is (PDF Page Number = Book Page Number + 17).

[3] Sing Bing Kang Heung-Yeung Shum, Shing-Chow Chan. *Image Based Rendering*. Springer Publishing, 1 edition, 2007. Available online at: `http://link.springer.com/content/pdf/10.1007%2F978-0-387-32668-9.pdf` Pages cited are **Book Page** Numbers. Formula for **PDF Page** Number is (**PDF Page Number** = **Book Page Number** + 17).