CHAPTER 3

METHODOLOGY

3.1 INTRODUCTION

This chapter discuss about process flow, the equipment and the material that will use and the steps of fabricate. It also described about the design of the rig that will be create. This is very important to determine the best and excellent result for this project.

This research study was conducted based on the methodology. This chapter plays an important role in development and implementing this project accordingly. The details are explained in this chapter.
3.2 FLOW CHART PROCESS

START

- Literature Review

- Initial Design Concept

- Choose the Best Concept

- Detailing Design / Design Improvement

- AutoCAD / Solid works

- Material Selection

- Fabrication

- Modification

- Parts / Material Analysis

- Rig can ease the scanning process?

- YES

- Discussion / Conclusion

- NO

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This flowchart had been created before the project was start. This flow chart is to show the steps in a making these project. It makes the process work more clearly and done in time. For this project, these are the several steps that need to achieve the objectives successfully.

These project starts with understanding the program that will use which are Kinect and Skanect. Observe and identify their advantages and disadvantages to understand about the concept of the rig. After that, concept design is carry out. In this project, 4 concept designs have been sketch out and an evaluation is carried out. Concept screening is the method of evaluation that are being carry out to design out the finalize design concept of the rig.

After finalize the concept, next process is material selection. Next, the fabrication process is carried out. Here several of tool and machining process like cutting, drilling, turning and much more is carry out. After that, the rig had been through an experiment or testing for identifying whether the rig achieved the objectives or not. If there are problems, modification and improvement must be done to make sure is objectives achieved. Lastly, after done all the steps a complete rig has been produced.