

## CHAPTER 6 CONCLUSIONS AND RECOMMENDATIONS

DFA methodologies have been proven to be successful in many companies doing product design. The merits of DFA are many and when combined with Design For Manufacturability (DFM), both methodologies provide a very useful tool in design and manufacturing. The quantitative aspect of DFA enable a quantitative evaluation and benchmarking of designs.

The PC based software developed by Boothroyd and Dewhurst for calculating assembly efficiencies is a very useful tool to use. The user friendly software takes away the tedious manual calculations and looking up of charts and tables found in most other methods.

The main work of this paper is on manual assembly design. Product assemblies today usually consist of both manual and automated assembly. Further work should be done to analyse both combined manual and automated assembly. PCB assemblies are very common today and they can be found in practically all consumer products. Component placements on PCB's are often a source of problem in PCB assemblies. Future work should be done to determine the best assembly methods and set design guidelines to improve on PCB assemblies.