Summary

We were attached to a university, Fachhochschule Lippe und Höxter in Germany on February 2007 for our 3.1 semester's overseas industrial attachment program (OIAP). This 6-months attachment would serve as a stepping stone for us in our future careers as we would have a clearer idea of what will be expected of us when we enter the workforce in future.

This 6-months internship program will enhance our:

- ✓ Project planning skills
- ✓ Real work life experience
- ✓ Creativity
- ✓ Problem solving skills
- ✓ Self-learning ability
- ✓ C++ Programming
- ✓ Matlab Programming
- ✓ Interpersonal skills
- ✓ Communication skills
- ✓ Adaptation skills to work in different environment
- ✓ Academic knowledge when put to real practical usage
- ✓ Hardware and software designing skills
- ✓ Knowledge about wireless communication
- ✓ Skills in frequency and antenna measurement

During the attachment, we were assigned to work on a project, "Measurement Set-Up for Three Dimensional Radiation Patterns". The project's experiment will be a combined work done by both of us.

We will be using C++ programming in this project to create a radiation pattern from the received power of a DUT (Device under Test) which is an antenna and a mobile phone.

This report presents the information, steps and results of the tests that we have done during the period of the industrial attachment program.

Supervisor: **Prof. Dr. Uwe Meier**