

Electrical/Computer Engineering Design Project Proposal

Title: *Software Development for Microwave Navigation Radar Application*

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Supervisor: *Weimin Huang*

Description

Microwave Navigation Radar has been widely used in sea surface target detection and tracking as well as ocean current and wave information extraction. In order to display the information collected by radar, a set of friendly GUI software is extremely important.

The project objective is to develop real-time friendly GUI software for microwave radar application using object-orientated program such as VC++ or JAVA. The software may be applied to the existing radar software product. The scope of the project would be to study the basic radar knowledge, analyze the radar data organization and processing, and develop a set of GUI software.

Roles

Four Electrical or Computer Engineering students are required in this project. In addition to be familiar with the radar knowledge by all of them, each of them may have different role as following:

Student 1: Analyze the organization of original radar data file, and Design a model to read it.

Student 2: Based on the extracted radar data, convert it to a format to be displayed on screen.

Student 3: Design a GUI to display the radar data.

Student 4: Design a simple algorithm to track the target of interest.