The research's objective is to design and develop a picture-based bill of material system for shoes' products.
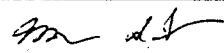
The researcher studies the structure of data shown on the bill of material for shoes' products and consequently designs and develops a picture-based bill of material system for shoes' products on a personal computer via Microsoft Access 7.0 shoftware application. For data management, the researcher designs database based on the data relativity. The researcher stores data of products, components, raw materials, database structure and symbols represented in database structure of the bill of material, both pictures and texts in the computer database. The researcher then uses visual basic 4.0 software application to design the application screen to record, display and edit a picture-based bill of material system for shoes' products in such a way that user can utilize it efficiently. The researcher makes a pilot test and proves that user can use this application in managing bill of material system for shoes' products effectively.
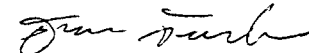
This research will be beneficial to shoe's manufacturer using information system as and administrative tool. It enhances user's efficiency in recording or editing bill of material which is a fundamental database for factory management. It will reduce any failure in searching and selecting lists of materials and improve the effectiveness in examining data from picture-base bill of material.

ภาควิชา........วิศวกรรมคอมพิวเตอร์........ ลายมือชื่อนิสิต........................

สาขาวิชา........วิทยาศาสตร์คอมพิวเตอร์........ ลายมือชื่ออาจารย์ที่ปรึกษา........................

ปีการศึกษา....2539.... ลายมือชื่ออาจารย์ที่ปรึกษาร่วม........................