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KOBKIAT KANJANAPONGKUL : A COMPUTER-AIDED DESIGN PROGRAM FOR ELECTRICAL CONTROL CUBICLE DESIGN.

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This thesis describes the design and development of Computer-Aided Design Program for Electrical Control Cubicle Design with AutoCAD r12 for Windows under Microsoft Windows 3.1. The scope of work is to design 4 types of cubicle: enclosed-type, dual-type, swingrack-type, and duplex type, according to ANSI/IEEE C37.21-1985 (IEEE Standard for Control Switchboards).

The program consists of 3 sections: the first section is to manage data of device, cubicle, and symbol which are used in the schematic-diagram design task. The second section is the design management. This section manages design tasks: cubicle-layout design, schematic-diagram design, and routing design. The last section presents the design results with design reports. These reports are created as text files which can be read by text-file editor program.

The test shows that this program can be used to design electrical control cubicle and shows satisfactory results.

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