ABSTRACTION

Monitoring system is needed for factory which its production system is large. If it is done manually can imagine the difficulty of machine operator task to monitor all the machines and equipment. There's a lot of application in market, but the costs are expensive, so for some factory it is not compatible between the cost and the function. Therefore, in this final project, writer design a real time monitoring system in automated-production system which uses Visual Basic and Microsoft Access as its tools and can give historical report which tittle "Dynamic Data Exchange Uses in Monitoring system of Automated-Machine".

In design this system, there is several things of performed within above trouble-shooting where divisible marginally in five step, that is early study phase, initialitation phase, creative phase, test phase and design analyze, and also phase of conclusion and suggestion. Early study phase include the determination of problem and goal to be reached, initialitation phase start to do study of study of book and field study which later on the systems analysis of exsisting and also the device making model at creative phase. After finishing making the model system hence process hereinafter is the test phase and continued with the systems analysis whether system that made have in line with early goal or not yet and also whether this system is competent for implementation   which in the end come up with phase of conclusion and suggestion

In making the model, the first is to identify the existing system and what its problems. The writer must know what is the existing system needed and finally design the new monitoring system. Making the model divided into some chapter that is first about Programmable Logic Controller Programs, designing Human Machine Interface and database, and integrating all components. The core of this final work is to make DDE connection between HMI and PLC Programs and design efficiency report. The system will be tested which is proper or not.

From the research result which have been done to be obtained by conclusion that with the implementation of the monitoring of Air Jet Loom workstation will facilitate user in doing observation and getting historical report by acquisition of field data which based by efficiency report in every condition accurately.