**ABSTRACT**

NOVI WULANDARI. Electronics Component Searching Tool on Component Shelf based Electronics Laboratory Information System (ELIS) Software using Visual Basic 6.0 version and ATmega16 Microcontroller as Control, Thesis, Jakarta, Education of Electronics Engineering, Electro Engineering Majoring, Faculty of Engineering, State University of Jakarta, 2015. Supervisor 1, Drs. Jusuf Bintoro, M.T, and Supervisor Efri Sandi, M.T.

This tool is made aimed to accelarate find component than manual and simplify person in charge of the laboratory to saving data and simplify of loaning service and turning tools and electronics laboratory components. The researhcer is design of tool Searcher Electronics Component Tool at Componen Rack based Electronics Laboratory Information System (ELIS) Software using Visual Basic 6and ATmega16 Microcontroller, dot matrix LED indicate in all drawer component. The ATmega16 as control system, Visual basic 6.0 version as Electronics Laboratory Information System (ELIS) programing and Microsoft Office Access Database as saving and database processing.

The research to do in Electronics Laboratory on Fourth Floor, Room 401, Electro Majoring in State University of Jakarta on August, 2014 until January, 2015. The method of designing and tool establishment is experiment. Examination for tool is data accumulation using Likert method to get response from the responder about software designing, expediency, and applied efficiency for Electronics Laboratory.

The implementation testing from Electronic Component Searcher Tool at Component Shelf based Electronic Laboratory Information System (ELIS) Software using Visual Basic 6.0 version and ATmega16 Microcontroller as Control and the result be obtained from examination of ELIS software designing the responder state is 87% approved to very agree, 93% approved to very agree for expediency, and 86% approved to very agree for efficiency. This software and tools useful, and appropriate if applied in Electronics Laboratory of State University of Jakarta.

Keywords : Electronics Laboratory, Visual Basic 6.0, ATmega16 Microcontrol, LED dot matrix schematic.