

RoadWorks: Traffic Light Control via Computer Interfacing

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**A Special Problem Presented to
The Faculty of the Computer Science
Division of Physical Science and Mathematics
College of Arts and Sciences
University of the Philippines in the Visayas
In Partial Fulfillment of the
Requirements for the
Degree of**

**Bachelor of Science
In
Computer Science**

March 2002

Abstract

Gathering of information was needed to know the behavior of lights and same as to the way on how to interface hardware using computers. After which, designs and flowcharts were made.

Hardware designs were tested using both software (Electronic Workbench) and actual circuitry using bread boards.

After the hardware was guaranteed to be working properly, it was then interfaced using a computer port and the main program was developed.

The developed software was successful in controlling the behavior of the lights and receiving data from the sensors. Further improvements was then made to the software to improve its interface and efficiency in controlling the said hardware.