BRAINIBOT BUGGY

Prepared by: Ong Ken Cha

ABSTRACT

Basically, this report acts as a brief and explanation of what I have done in my project throughout the semester, as well as all the research and testing that was conducted his project report is concerned with the construction and application of an electronics circuit. It is an assembly of various kinds of electronic components on a circuit board. The relevant diagrams and material is places in the body of the report. Practically, my project consists of 2 parts, namely the software and the hardware.

What worth mentioning is the 'brain' of my project, the PIC microcontroller PIC12C509 that acts as a software part of my project, the brainibot buggy. It is an integrated circuit which is programmable using computer. With this PIC microcontroller, everything is simplified especially the whole circuit. Whatever is going to perform, not going to perform, should be doing, should not be doing, are done within a small integrated circuit.

For the hardware part, 3 sensors and 2 motors are used as input and output respectively. As a result, the combination of hardware and software makes my project intelligent in such a way that it will seek for light and avoid obstacle during light seeking. Further information and explanation is in the body of this report.