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# Fuzzy Logic Motor Speed Controller

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# FUZZY LOGIC MOTOR SPEED CONTROLLER

for  
EET 491  
Senior Design Project

By  
Chris Ellsworth

April 25, 1994

Copy: Paul Lin

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## **ABSTRACT**

This project is a fuzzy logic DC motor speed controller. It uses fuzzy logic to control the speed of a DC motor. The fuzzy logic manipulations are done with a computer to determine a DC voltage output. That output is then sent through a D/A to a pulse width modulator. The pulse width modulator then provides a MOSFET with a signal that will limit the amount of power that gets to the motor. The motor speed is read from a tacho-generator that is connected to the motor. The speed is then determined by the amount of voltage being produced by the tacho-generator.

This report shows all information gathered and how the project was built. All resources are listed to answer any questions.