

RBE 2001 Notes 9-16

Motor Drive

- A microprocessor cannot drive a motor directly, because it cannot supply enough voltage or current
- As a result, there must be some interfacing circuitry:
 - Motor power is supplied from some other power source
 - Control signals are supplied by the microprocessor
- A variety of technologies exist: such as relays, bipolar transistors, power MOSFETs, and motor drive integrated circuits
- Regardless of the technology used, the basic topology of the interface circuitry is usually the same
- This circuitry is known as an H-bridge

Bertozzi Looks Annoyed

The H-Bridge Circuit

Going Over Motor Controllers

- Pretty straightforward, sending HIGH signal to pins changes parameters for motors

The Rest Has Been Physics