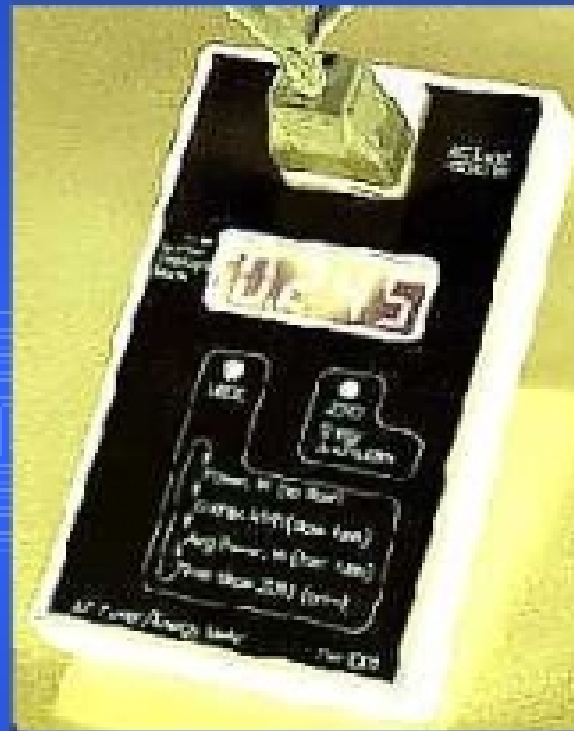


# Power Meter



ECE 4512 Senior Design I

Department of Electrical & Computer Engineering

Mississippi State University

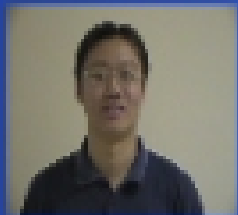
# Team

## Advisor:



Professor Raymond S. Winton

## Team Leader:



Wei-Keat Quek

*Contribution:* A/D Converter, LCD Display, & Documentation

## Team Members:



Matthew Hemphill

*Contribution:* Voltage-sensing circuit & Documentation



Scott Fredrick

*Contribution:* Current-sensing circuit & Documentation



James Nixon

*Contribution:* Microcontroller & Documentation

# Motivation

To provide average American householders with a portable & accurate digital power meter

- Importance

- Can educate consumers, save them money, & aid in purchase decisions
- Can aid in troubleshooting problem circuits & in making decisions to conserve energy

- Relevance

- Allows for concrete, practical design experience based on curriculum
- Allows for group collaboration and division of tasks based on each member's specialty