1. **OBJECTIVES**

The objectives for lab 9 were to study ADC conversion, the Nyquist Theorem, aliasing, analog amplifiers, low pass filters, data acquisition systems, and to develop a temperature measurement system using a thermistor.

1. **HARDWARE DESIGN**

See the schematic (.sch) file included with document.

1. **SOFTWARE DESIGN**

See the software files (calib.h, ADC.c, ADC.h, and main.c) included with document.

1. **MEASUREMENT DATA**
   1. **Sketch three waveforms**

The Nyquist Theorem avoids the problem of Aliasing by ensuring that at least two samples will always fall within one period. Valvano's Postulate takes this further by ensuring at least 10 samples will fall within one period.

* 1. **Static Circuit Performance**
  2. **.**
  3. **.**
  4. **.**

1. **ANALYSIS AND DISCUSSION**

None