

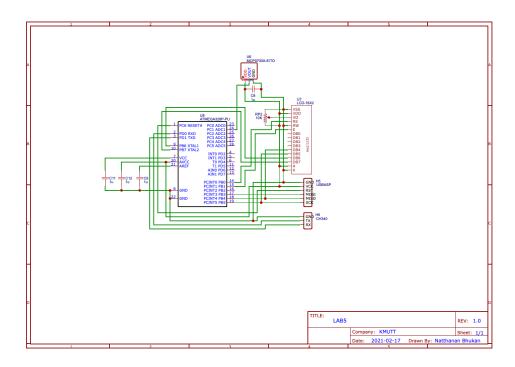
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CPE 328 Embedded System, 2/2020

LAB Lecture 5: Analog digital convertor

Assign Date: 17 Feb 2021 Due Date: 24 Feb 2021

Schematic Diagram



Code

```
#define F_CPU 8000000L

| #include <avr/io.h>
| #include <stdio.h>
| #include <stdio.h

| #in
```



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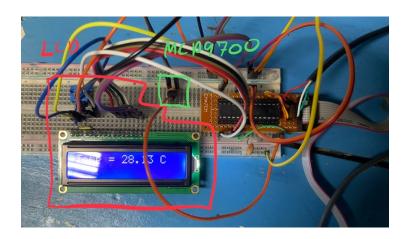
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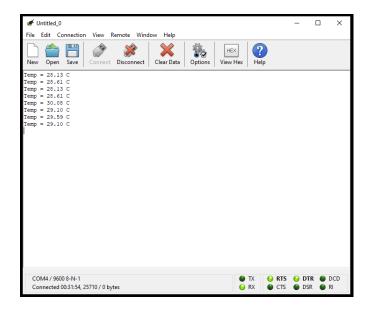
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On board



1. Connect a circuit with an ATMega328P and MCP9700A (analog temperature sensor) and write a program to transmit the current ambient temperature to your PC using a serial port

Result





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2. Extend your program to display the current ambient temperature on the 16x2 alphanumeric LCD display in addition to transmiting through the serial port **Result**

