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|  | **2014** |
|  | TOMSON ELECTRONCIS PROJECT REPORT  LAWRENCE MATTHEW |

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| **[** INCUBATOR CONTROL USING ATMEGA 32**]** |
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The temperature can be measured using thermistor (temprature variable resistor NTC 10k) or lm 35 transistor. The o/p connection in case of lm 35 need to be decided.

The system should be capable of handling 4 incubators at a same time. The heating element is 40W bulbs. Each control should be enable/disabled using dip switches or alternatives. The bulbs are controlled using the relay onboard.

The temprature of each incubator should be displayed on 16x4 lcd module.

Motor based movement system needs to be implemented for 4 systems. The motor need to be rotated CW and CCW every 1 hour.

Designing a polyster capacitor based power distribution for the circuit would be better to avoid transformer. It is an alternative option.

BOM:

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| No: | Name: | Value: | Quantity: |
|  | Ntc | 10k | 4 |
|  | Atmega 32 |  | 1 |
|  | Relay G5L | 12 V Relay | 4 |
|  | Lm35 |  | 4 |
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Refrences:

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