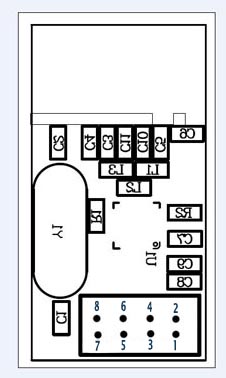
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|  | **2013** |
|  | HH Electronic Solutions  Hai Nguyen |

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| **ENginerING LOGBOOK]** |
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| --- | --- | --- | --- |
| Task name | How to connect NRF24L01+ 2.4GHz with Arduino | | |
| Owner: Hoang Hai | | Duration: 1h30 | Sunday, August 18, 2013 |

Link: <http://arduino-info.wikispaces.com/Nrf24L01-2.4GHz-HowTo>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Signal | RF Module | COLOR | Arduino pin for RF24 Library | Arduino pin for Mirf Library |
| GND | 1 | Brown | GND | GND |
| VCC | 2 | Red | 3.3V | 3.3V |
| CE | 3 | Orange | 9 | 8 |
| CSN | 4 | Yellow | 10 | 7 |
| SCK | 5 | Green | 13 | 13 |
| MOSI | 6 | Blue | 11 | 11 |
| MISO | 7 | Violet | 12 | 12 |
| IRQ | 8 | Gray | 2 \* |  |



We have to RF24 library:

1.

Link: <http://maniacbug.github.io/RF24Network/index.html>

Copy code to owner folder

<http://arduino-info.wikispaces.com/nRF24L01-RF24-Examples>

2.

Link <http://playground.arduino.cc/InterfacingWithHardware/Nrf24L01>

Copy code to owner folder

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| Task name | Design of Relay + switch node | | |
| Owner: Hoang Hai | | Duration: | Date: Monday, August 19, 2013 |

Design requirement:

1. Switch and relay controls the light

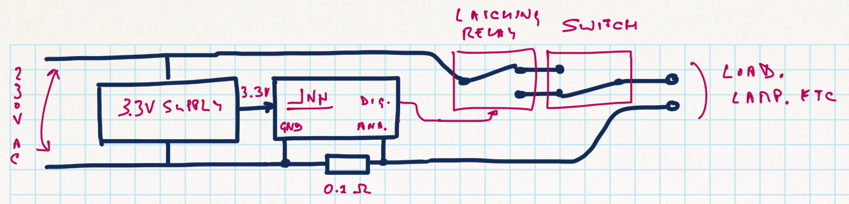
2. switch can control the light regarding the state of relay and vice versa.

3. MCU can know the state of light

4. Can combine with occupancy sensor

5.

Jeenode design



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| Task name | Design of Relay + switch node | | |
| Owner: Hoang Hai | | Duration: | Date: Monday, August 19, 2013 |