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\*Project name:

ARDUINO IN HIGH SERIE 00 - NFC ITEAD PN532 & LCD!!!

(The 'Hello World' example for the nfc Mifare Card)

Hex File: NFC\_MifareCArd\_LCD\_16X2.ino

\*Revision History:

20160210:

- found on internet (gilj3)

\*Description:

let's play with the Contactless Mifarecard and show you

how connect NFC Module ITEAD PN532 to the Arduino and

to simulate a security access. Enjoy good,and have fun. Bye!!!

\*MCU: Arduino - @16MHz http://www.arduino.cc/

\*NFC.Board: NFC Module ITEAD PN532 http://wiki.iteadstudio.com/ITEAD\_PN532\_NFC\_MODULE

\*Connections:

arduino pins 13,12,11,10, 5v, gnd -> Itead's pins sdk, mi, mo, scl, 5v, gnd

Arduino pins 8, 9, gnd, gnd, gnd in LCD´pins rs, e, vss, rw, k (vo in mid pot)

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// --- libraries --- //

#include <PN532.h>

#include <SPI.h>

#include <Wire.h>

#include <LiquidCrystal.h>

LiquidCrystal lcd(7,6,5,4,3,2);

/\*Chip select pin can be connected to D10 or D9 which is hareware optional\*/

/\*if you the version of NFC Shield from SeeedStudio is v2.0.\*/

#define PN532\_CS 10

PN532 nfc(PN532\_CS);

#define NFC\_DEMO\_DEBUG 1

// --- Configurations--- //

void setup()

{

Serial.begin(9600);

lcd.begin(16, 2);

lcd.clear();

lcd.setCursor(0,0);

Serial.println("Hello!");

lcd.print("Hello!");

nfc.begin();

uint32\_t versiondata = nfc.getFirmwareVersion();

if (! versiondata) {

#ifdef NFC\_DEMO\_DEBUG

Serial.println("Didn't find PN53x board");

#endif

while (1); // halt

}

// configure board to read RFID tags and cards

nfc.SAMConfig();

init\_display();

}

// --- print method--- //

void init\_display(){

// show time once in a while

lcd.clear();

lcd.setCursor(0,0);

Serial.println("Hi!! Pass Card!!");

lcd.print("hi! pass card!!");

}

void loop(void) {

boolean success;

uint8\_t uid[] = { 0, 0, 0, 0, 0, 0, 0 }; // Buffer to store the returned UID

uint8\_t uidLength; // Length of the UID (4 or 7 bytes depending on ISO14443A card type)

success = nfc.readPassiveTargetID(PN532\_MIFARE\_ISO14443A);

if (success) {

Serial.println("Found A Card!");

lcd.clear();

lcd.setCursor(0,0);

lcd.print("Welcome Joe");

for (uint8\_t i=0; i < uidLength; i++)

{

Serial.print(uid[i], HEX);

lcd.print(uid[i], HEX);

}

// 1 second halt

delay(500);

}

else

{

// PN532 probably timed out waiting for a card

Serial.println(" Waiting for a card...");

}

}