Universitatea Tehnica din Cluj-Napoca

Facultatea de Automatica si Calculatoare

Materie: Programare cu microprocesoare

Proiect: Wearable Matrix Animation

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1. **Introducere**

Ideea proiectului este de a realiza niste animatii al caror scop este infrumusetarea unui articol vestimentar prin afisarea acestora pe o matrice de neopixeli. Utilizatorul va avea posibilitatea de a alege atat ce animatie sa fie afisata, cat si culoarea acesteia folosind propriul telefon. Acest lucru este posibil prin valorificarea functiilor arduino, inclusiv acelor din libraria Adafruit deoarece aceasta este specializata atat pe manipularea neopixelilor cat si pe conexiune bluetooth.

1. **Schema electrica**

In cadrul acestui proiect am folosit 3 componente:

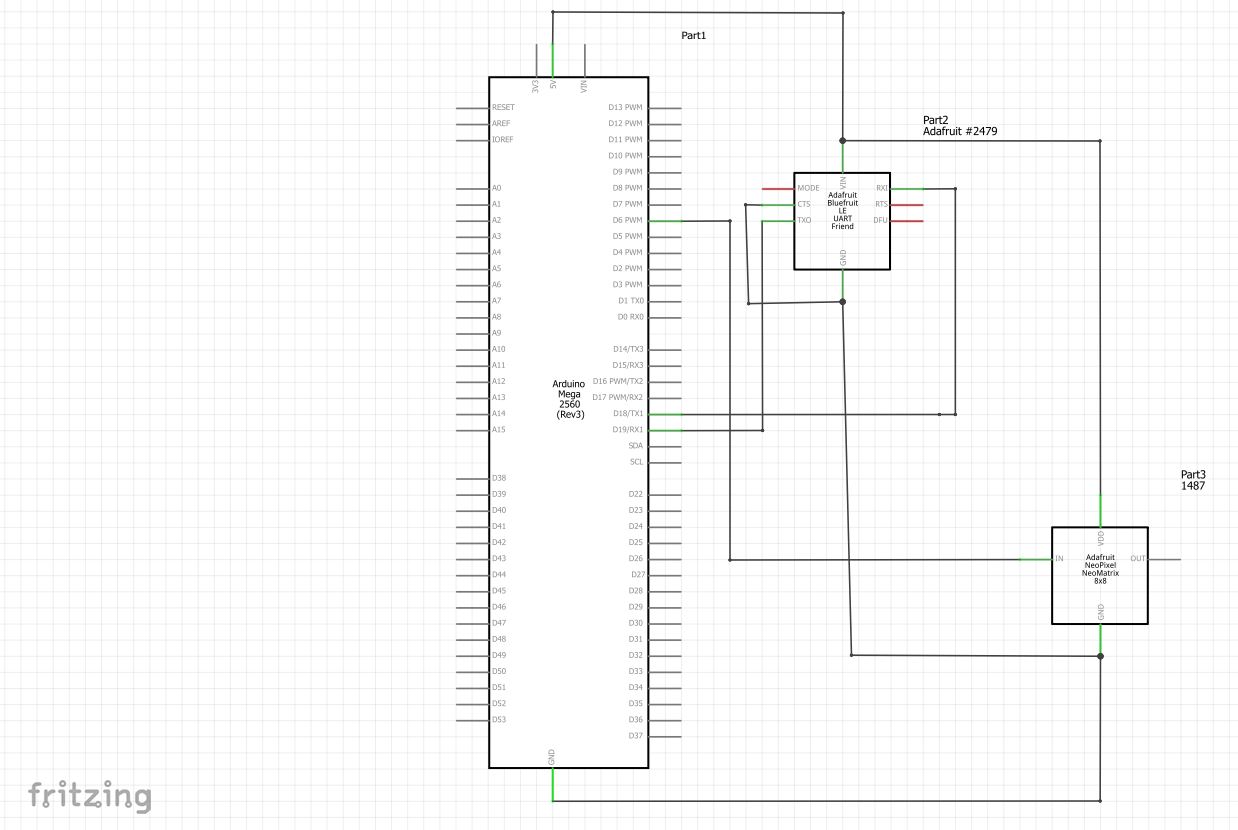
* Placa Arduino Mega 2560: necesara incarcarii programului si alimentarii celorlalte doua componente
* Modul Bluefruit LE Uart Friend: necesar folosirii aplicatiei Bluefruit Connect pentru a trimite prin bluetooth datele dorite
* Matricea 8x8 de neopixeli WS28112B-64: necesara afisarii animatiilor

Modul in care acestea se conecteaza este surprins in schemele urmatoare:

![O imagine care conține text, electronice

Descriere generată automat](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEl1bGlhAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1MAAAkpIAAgAAAAM1MAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Conectarea componentelor Figura



Schema electrica Figura 2

1. **Proiectare si implementare**

Un prim pas in realizarea proiectului a fost configurarea animatiilor pe care dorim sa le vizualizam. Astfel, folosind programul PixelFontEdit 2.7 am trasat diversele stari prin care fiecare animatie ar trebui sa treaca pentru a fi mai usor sa scriem codul corespunzator.

O imagine care conține text, electronice, captură de ecran

Descriere generată automat

Pixel Font Edit 2.7 Figura 3

Folosind acest editor am desenat astfel cinci dintre cele opt animatii existente, etapele specificate fiind urmatoarele:

Animatia “Heart”:

O imagine care conține text, shoji

Descriere generată automatO imagine care conține shoji, cuvinte încrucișate

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, mozaicat

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct

Descriere generată automatO imagine care conține text, shoji, cuvinte încrucișate

Descriere generată automat

Animatia “Coffee”:

O imagine care conține text, cuvinte încrucișate, mozaicat

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, mozaicat

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, interior

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, mozaicat

Descriere generată automat

Animatia “Emotions”:

O imagine care conține text, cuvinte încrucișate, fruct, mozaicat

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, interior

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, interior

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, interior

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, negru

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, interior

Descriere generată automat

Animatia “Snowflakes”:

O imagine care conține text, cuvinte încrucișate, fruct, negru

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, interior

Descriere generată automatO imagine care conține text, cuvinte încrucișate, negru, mozaicat

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, mozaicat

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, mozaicat

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, mozaicat

Descriere generată automat

Animatia “Text”:

O imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, mozaicat

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji, fruct

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji, fruct

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct, mozaicat

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji, mozaicat

Descriere generată automatO imagine care conține text, shoji, cuvinte încrucișate

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji, fruct

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji, fruct

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, shoji, cuvinte încrucișate

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji, mozaicat

Descriere generată automatO imagine care conține text, cuvinte încrucișate, shoji, fruct

Descriere generată automatO imagine care conține text, cuvinte încrucișate, fruct

Descriere generată automat

Aditional animatiei “Text” vom utiliza functia serialEvent() in care citim un cuvant trimis in interfata seriala si il pastram intr-o variabila. Astfel, daca acest tip de animatie este selectata si cuvantul este format se va afisa pe matricea led cuvantul respectiv, altfel va fi folosit un cuvant predefinit.

Celelalte trei animatii nu urmeaza acelasi tipar, fiecare pixel al matricii fiind colorat individual, in functie de modelul ales. Detalierea acestora va fi efectuata in paragrafele urmatoare.

Implementarea primelor cinci animatii este facilitata de folosirea librariei Adafruit\_NeoMatrix, sustinuta de Adafruit\_GFX si Adafruit\_NeoPixel deoarece matricea noastra este in esenta o banda de neopixeli inlantuita. Acestea ajuta la creerea unui display grafic bidimensional, avand primitive care ne scutesc de adresarea individuala a fiecarui pixel a matricii, putand folosi functiile de desenare de forme. In desenarea animatiilor cele mai uzuale functii folosite de mine au fost drawLine-pentru desenarea liniilor din animatii, drawPixel-pentru desenarea unui pixel individual, fillScreen(0)-pentru oprirea tuturor pixelilor la tranzitiile dintre etapele animatiilor si show-pentru afisarea pe matrice la fiecare pas a schimbarilor efectuate.

Dificultatea alegerii coordonatelor x si y ale punctelor au constat in faptul ca matricea utilizata de mine are numerotare inversa pentru linii pare, respectiv impare, conform figurii, reprezentand astfel un impediment pentru desenarea liniilor pe coloane.

O imagine care conține text, electronice, tastatură

Descriere generată automat

Orientarea ledurilor matricii Figura 4

Odata cunoscute sabloanele pentru etapele animatiei si inteleasa utilizarea corecta a matricii, specificarea animatiilor s-a efectuat fluid conform urmatoarelor tipare:

Animatia 1 “Heart” – apeleaza cele fiecare dintre cele cinci sabloane care reprezinta tranzitiile animatiei la interval de jumatate de secunda, intre fiecare apel fiind folosite functiile fillScreen(0) si show() pentru o afisare corecta

Animatia 2 “Coffee” – apeleaza cele fiecare dintre cele patru sabloane care reprezinta tranzitiile animatiei la interval de jumatate de secunda, intre fiecare apel fiind folosite functiile fillScreen(0) si show() pentru o afisare corecta

Animatia 3 “Emotions” – apeleaza cele fiecare dintre cele sase sabloane care reprezinta tranzitiile animatiei la interval de jumatate de secunda, intre fiecare apel fiind folosite functiile fillScreen(0) si show() pentru o afisare corecta, ordinea acestora poate fi inlocuita oricand pentru reprezentarea altei mimici precum zambet sau tristete, precum functiile happyAnimation() si sadAnimation() reprezentate aditional

Animatia 4 “Snowflakes” – apeleaza cele fiecare dintre cele sase sabloane care reprezinta tranzitiile animatiei la interval de jumatate de secunda, intre fiecare apel fiind folosite functiile fillScreen(0) si show() pentru o afisare corecta

Animatia 5 “Text” – foloseste literele din sabloanele anterioare, insa are alta logica: utilizatorul are posibilitatea de a afisa succesiv pe matrice fiecare litera din cuvantul primit ca parametru. Acesta poate fi folosit predefinit sau citit din interfata seriala afisandu-se astfel un cuvant la alegerea utilizatorului. Pentru a efectua aceasta operatie se defineste functia serialEvent() care se apeleaza in mod automat cand apar date pentru a fi citite. In interiorul acesteia cat timp exista octeti disponibili ii citim din interfata seriala si ii concatenam la cuvantul nostru inputString alocat anterior, pana cand primim caracterul “\n” care semnifica incheierea cuvantului. Odata format cuvantul acesta este disponibil pentru afisare pe matrice setand variabila stringComplete true. Dupa ce acesta este afisat aceasta va fi setata false pentru a indica disponibilitatea de a citi un alt cuvant. Sirul este de asemenea golit pentru a pregati urmatoarea citire.

Animatia 6 “Dots” – aceasta animatie a fost aleasa din considerente estetice deoarece succesiunea repetata a activarii a cate treizeci de pixeli (prin buclele for) la pozitie si cu culoare aleatoare, fara niciun delay intre etape confera efectul de sclipici

Animatia 7 “Line” – scopul acestei animatii este de a valorifica si functiile puse la dispozitie de libraria FastLed. Pentru fiecare dintre cei saizeci si patru adresati individual setam culoarea cu o nuanta hue incrementata la fiecare pas, precum si Saturation si Value maxime. Dupa setarea tuturor ledurilor se reface procesul in ordine inversa. FastLed dispune de un spectru mult mai bogat de culori si mai optim, fiecare componenta avand valori intre 0-255, generand astfel un cod mai rapid si mai compact.

Animatia 8 “Spirals”– foloseste si aceasta libraria FastLed si afiseaza doua spirale cu culori aleatorii. Matricea este considerata de fapt o banda de neopixeli continua, de aceea pentru desenarea spiralelor au fost construiti patru vectori corespondenti patratelor care alcatuiesc spirala. Fiecare pixel este colorat corespunzator, pozitia fiind specificata folosind vectorul de dimensiuni care reuneste toate pozitiile patratelor. Pozitiile au fost specificate confrom figurii:



Pozitiile neopixelilor Figura 5

Avand, asadar, toate cele opt animatii pregatite urmatoarea etapa este de a realiza conexiunea la modulul bluetooth Bluefruit LE si de a pregati mediul. In cadrul functiei de setup() se initializeaza starea matricii si a sirului de leduri FastPixels, setandu-le totodata luminozitatea. Ulterior, se afiseaza pe matrice un mesaj text de intampinare “Welcome” predefinit. Dupa afisarea mesajului se activeaza comunicarea seriala cu baud rate 115200 pentru a fi compatibil cu modulul.

Configurarea modulului bluetooth Bluefruit LE declarat inainte de setup() incepe prin initializarea acestuia (daca modulul nu este setat in modul Command initializarea esueaza si se afiseaza un mesaj de eroare, iar executia este oprita). Ulterior se efectueaza o resetare din fabrica a modulului pentru a ne asigura ca modulul este intr-o stare consistenta, stergand setarile care persistau de la utilizarile anterioare. In cazul unui esec se afiseaza un mesaj corespunzator si se stopeaxa continuarea, programult necesitand sa fie reincarcat. Suplimentar se pot afisa informatii despre modulul utilizat apeland functia info(). Pasul urmator este de a ne conecta la modul folosind aplicatia mobila Bluefruit Connect disponibila in Magazin Play sau AppStore. Se asteapta pana cand se efectueaza conectarea, dupa care se poate trece in modul DATA, folosind functionalitatile de tip Controller si Color Picker. Pe parcursul efectuarii acestor operatii in interfata seriala au fost scrise mesaje ajutatoare care indica in ce pas ne aflam.

In cadrul functiei loop() se citesc informatiile primite de la modulul Bluefruit, folosind functia readPacket(&ble, BLE\_READPACKET\_TIMEOUT) preluata din clasa packetParser preimplementata (vezi Anexa A). In functie de packetbuffer[1] stabilim daca am folosit Color Picker sau controlul butoanelor. In cazul in care acesta este ‘C’ inseamna ca am folosit Color Picker asa ca citim valorile RGB si le afisam pe ecran.

Daca acesta este ‘B’ atunci a fost apasat un buton din cadrul lui Controller, asa ca citim numarul butonului si verificam daca este apasat, afisand un mesaj corespunzator. Starea animatiei se schimba in functie de numarul butonului apasat, pentru fiecare dintre cele opt posibile cazuri apeland animatia specificata.

Toate aceste functionalitati ale modulului Bluefruit au putut fi folosite utilizand librariile Adafruit\_BLE si Adafruit\_BluefruitLE\_UART, precum si clasa de parsare specificata in cadrul anexei A, permitandu-ne astfel sa realizam conexiunea, sa citim, prelucram si afisam datele pentru a alege animatia si culoarea acesteia intr-un mod mult mai interactiv, gratie interfetei grafice oferite de aplicatia Bluefruit Connect.

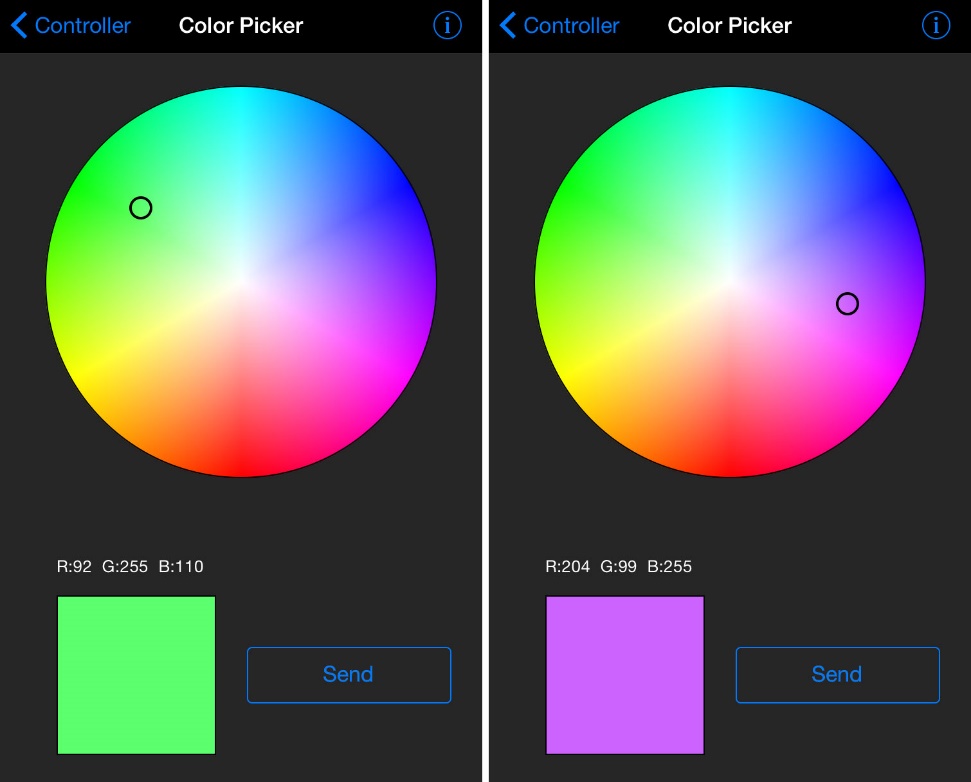
1. **Manual de utilizare si rezultate**

Pentru a utiliza corect acest proiect se recomanda efectuarea urmatorilor pasi:

* Ne asiguram ca montajul din Figura 1 este realizat corect si matricea este bine pozitionata pe articolul vestimentar
* Setam modulul Bluefruit in modul Command si incarcam programul pe placa
* Dupa observarea mesajului de intampinare si confirmarea efectuarii resetarii din fabrica se porneste aplicatia Bluefruit Connect de pe telefonul mobil si se apasa butonul “Connect” pentru conectarea la modul
* Modulul Bluefruit se seteaza in modul Data pentru a putea prelua informatiile, dupa care se pot folosi Controller si Color Picker

O imagine care conține text, electronice

Descriere generată automat



* Culorile primelor cinci animatii sunt configurabile prin trimiterea unei nuante alese in Color Picker
* Animatia poate fi schimbata folosind butoanele astfel:
* Butonul 1: Animatia “Heart”
* Butonul 2: Animatia “Coffee”
* Butonul 3: Animatia “Emotions”
* Butonul 4: Animatia “Snowflakes”
* Butonul 5 (sageata in sus): Animatia “Text”
* Butonul 6 (sageata in jos): Animatia “Dots”
* Butonul 7 (sageata la stanga): Animatia “Line”
* Butonul 8 (sageata la dreapta): Animatia “Spirals”
* Odata aleasa animatia si culoarea dorita aceasta va fi afisata pe matricea din cadrul articolului vestimentar pana la noi modificari

Rezultatele obtinute sunt surprinse in detaliu in videoclipul postat la adresa <https://youtu.be/k0zYPIlKWe0> , precum si in urmatoarele imagini:

O imagine care conține lumină, laser

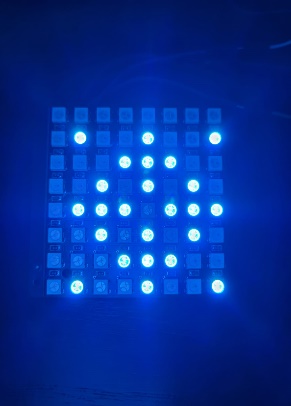
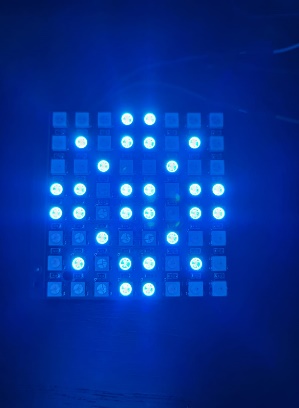
Descriere generată automatO imagine care conține exterior

Descriere generată automatO imagine care conține exterior, verde

Descriere generată automat**O imagine care conține exterior, lumină

Descriere generată automat**

O imagine care conține lumină

Descriere generată automatO imagine care conține interior, ecran

Descriere generată automat

O imagine care conține exterior, lumină, trafic, verde

Descriere generată automatO imagine care conține lumină, exterior, trafic, verde

Descriere generată automat

1. **Concluzii**

Conclusiv, pot spune ca acest proiect mi-a oferit posibilitatea de a aprofunda cunostintele legate de arduino prin valorificarea atat a cunostintelor dobandite la laborator (de exemplu folosirea interfetei seriale) precum si acumularea a noi informatii prin utilizarea unor componente si librarii noi (pentru matricea de neopixeli si modulul bluetooth). Pe langa scop didactic, acest proiect indeplineste si rol estetic reprezentand un accesoriu inovativ de purtat pentru un pasionat al domeniului. Ca dezvoltari ulterioare proiectul poate fi facut la scara mai mare prin concatenarea mai multor matrici de neopixeli sau prin adaugarea altor animatii.

**Bibliografie**

**Fisierul sursa al proiectului este accesibil la adresa: <https://github.com/iuliabumbu/PMP>**

Resursele bibliografice utilizate in dezvoltarea proiectului si intelegerea modului de functionare al componentelor sunt:

<https://learn.adafruit.com/introducing-the-adafruit-bluefruit-le-uart-friend?view=all>

<https://learn.adafruit.com/adafruit-neopixel-uberguide/neomatrix-library>

<https://blog.claytonk.com/2019/10/16/working-with-fastled-library/>

<http://www.mirceapaulmuresan.com/papers/PMP-RO3.pdf?fbclid=IwAR1Bc78U8M6Ix5idIPd5Wr_Kn3I4l6sNraI8cIte_jle9GZv6YfeA9sbdGw>

**Anexe**

**Anexa A**

**Clasa PacketParser**

#include <string.h>

#include <Arduino.h>

#include <SPI.h>

#if not defined (\_VARIANT\_ARDUINO\_DUE\_X\_) && not defined (\_VARIANT\_ARDUINO\_ZERO\_) && not defined(\_\_SAMD51\_\_)

#include <SoftwareSerial.h>

#endif

#include "Adafruit\_BLE.h"

#include "Adafruit\_BluefruitLE\_SPI.h"

#include "Adafruit\_BluefruitLE\_UART.h"

#define PACKET\_ACC\_LEN (15)

#define PACKET\_GYRO\_LEN (15)

#define PACKET\_MAG\_LEN (15)

#define PACKET\_QUAT\_LEN (19)

#define PACKET\_BUTTON\_LEN (5)

#define PACKET\_COLOR\_LEN (6)

#define PACKET\_LOCATION\_LEN (15)

// READ\_BUFSIZE Size of the read buffer for incoming packets

#define READ\_BUFSIZE (20)

/\* Buffer to hold incoming characters \*/

uint8\_t packetbuffer[READ\_BUFSIZE+1];

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

/\*!

@brief Casts the four bytes at the specified address to a float

\*/

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

float parsefloat(uint8\_t \*buffer)

{

float f;

memcpy(&f, buffer, 4);

return f;

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

/\*!

@brief Prints a hexadecimal value in plain characters

@param data Pointer to the byte data

@param numBytes Data length in bytes

\*/

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

void printHex(const uint8\_t \* data, const uint32\_t numBytes)

{

uint32\_t szPos;

for (szPos=0; szPos < numBytes; szPos++)

{

Serial.print(F("0x"));

// Append leading 0 for small values

if (data[szPos] <= 0xF)

{

Serial.print(F("0"));

Serial.print(data[szPos] & 0xf, HEX);

}

else

{

Serial.print(data[szPos] & 0xff, HEX);

}

// Add a trailing space if appropriate

if ((numBytes > 1) && (szPos != numBytes - 1))

{

Serial.print(F(" "));

}

}

Serial.println();

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

/\*!

@brief Waits for incoming data and parses it

\*/

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

uint8\_t readPacket(Adafruit\_BLE \*ble, uint16\_t timeout)

{

uint16\_t origtimeout = timeout, replyidx = 0;

memset(packetbuffer, 0, READ\_BUFSIZE);

while (timeout--) {

if (replyidx >= 20) break;

if ((packetbuffer[1] == 'A') && (replyidx == PACKET\_ACC\_LEN))

break;

if ((packetbuffer[1] == 'G') && (replyidx == PACKET\_GYRO\_LEN))

break;

if ((packetbuffer[1] == 'M') && (replyidx == PACKET\_MAG\_LEN))

break;

if ((packetbuffer[1] == 'Q') && (replyidx == PACKET\_QUAT\_LEN))

break;

if ((packetbuffer[1] == 'B') && (replyidx == PACKET\_BUTTON\_LEN))

break;

if ((packetbuffer[1] == 'C') && (replyidx == PACKET\_COLOR\_LEN))

break;

if ((packetbuffer[1] == 'L') && (replyidx == PACKET\_LOCATION\_LEN))

break;

while (ble->available()) {

char c = ble->read();

if (c == '!') {

replyidx = 0;

}

packetbuffer[replyidx] = c;

replyidx++;

timeout = origtimeout;

}

if (timeout == 0) break;

delay(1);

}

packetbuffer[replyidx] = 0; // null term

if (!replyidx) // no data or timeout

return 0;

if (packetbuffer[0] != '!') // doesn't start with '!' packet beginning

return 0;

// check checksum!

uint8\_t xsum = 0;

uint8\_t checksum = packetbuffer[replyidx-1];

for (uint8\_t i=0; i<replyidx-1; i++) {

xsum += packetbuffer[i];

}

xsum = ~xsum;

// Throw an error message if the checksum's don't match

if (xsum != checksum)

{

Serial.print("Checksum mismatch in packet : ");

printHex(packetbuffer, replyidx+1);

return 0;

}

// checksum passed!

return replyidx;

}