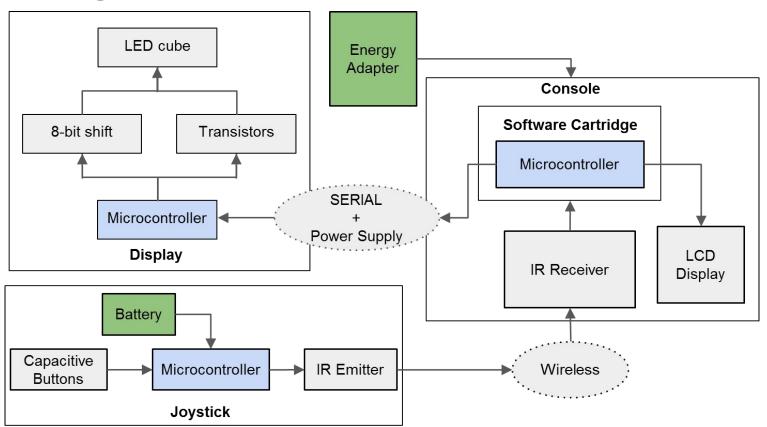


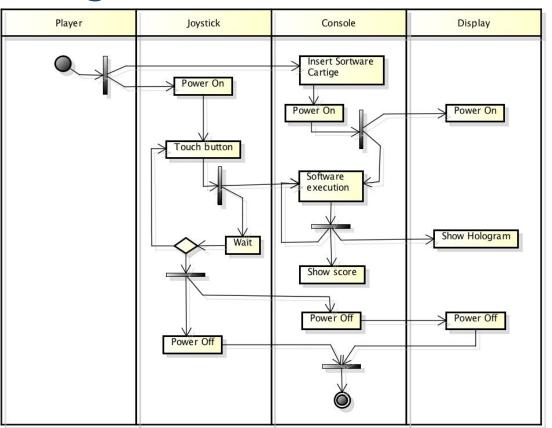
Outline

- Modeling:
 - Block Diagram;
 - Activities Diagram;
 - Use Case Diagram.
- Schematics;
- Current status;
- Difficulties;
- Workarounds;
- Changes.

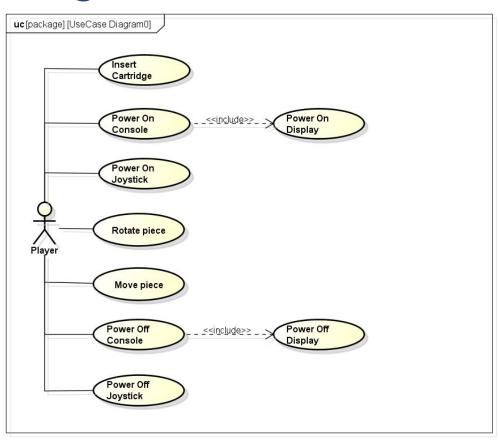
Block diagram



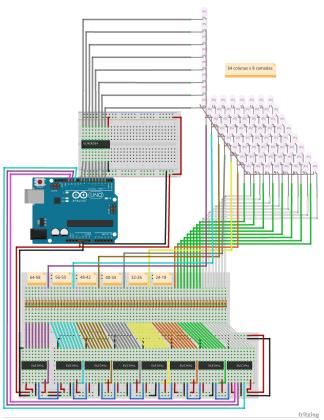
Activities diagram



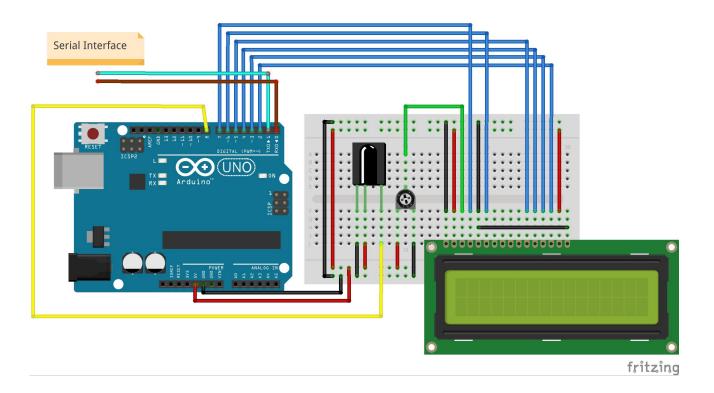
Use case diagram



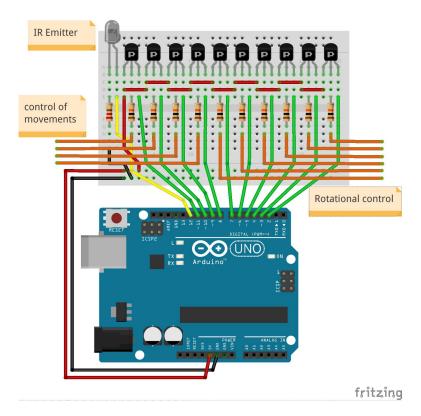
Display Schematic



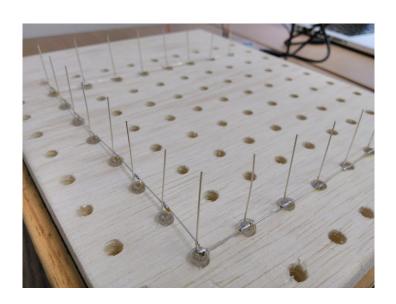
Console Schematic

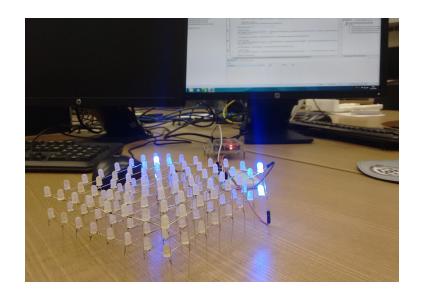


Joystick Schematic

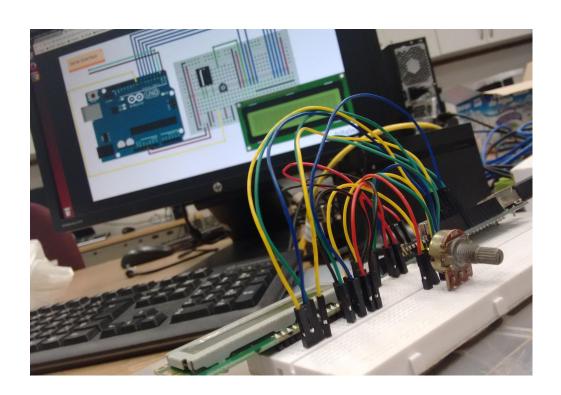


Current Status





Current Status





Main difficulties

- Sanding and soldering 512 LEDs;
- Design the communication between the Joystick and the Console;
- Design the code of the game.

Workarounds

- Template for soldering the cube layers;
- A "fake" grinding machine to accelerate the sanding;
- RF module if the IR emitter doesn't work;
- We are still designing the game code.

Changes in the original project

Currently we didn't make changes on the original project, but some problems are occurring and maybe we need to change some components or part of the system architecture.

- Maybe we need to change the communication way between the Joystick and the Console;
- Maybe we need to change the Arduino UNO of the Console for the Arduino Mega.

