

Here we develop a mini Aduino powered MP3 player than can play songs from an SD card. The system makes is not only for playing music but also can be used as a reverse parking indicator player, miniature speaker, instruction playing etc.

To develop this system we make use of an Arduino uno, SD card reader, speaker module, basic electronics components and PCB board to develop the system. The SD card reader connects to the Arduino using serial communication. We now use the Arduino controller to play the songs from the SD card on the speaker. Also we provide 3 buttons on the PCB for 3

Commands:

- Play/Pause
- Previous Song
- Next Song

The push buttons can be replaced with sensors and automated systems to use this MP3 player for different applications. This allows us to create MP3 player functionality that can be used in following applications:

- Car navigation voice broadcast;

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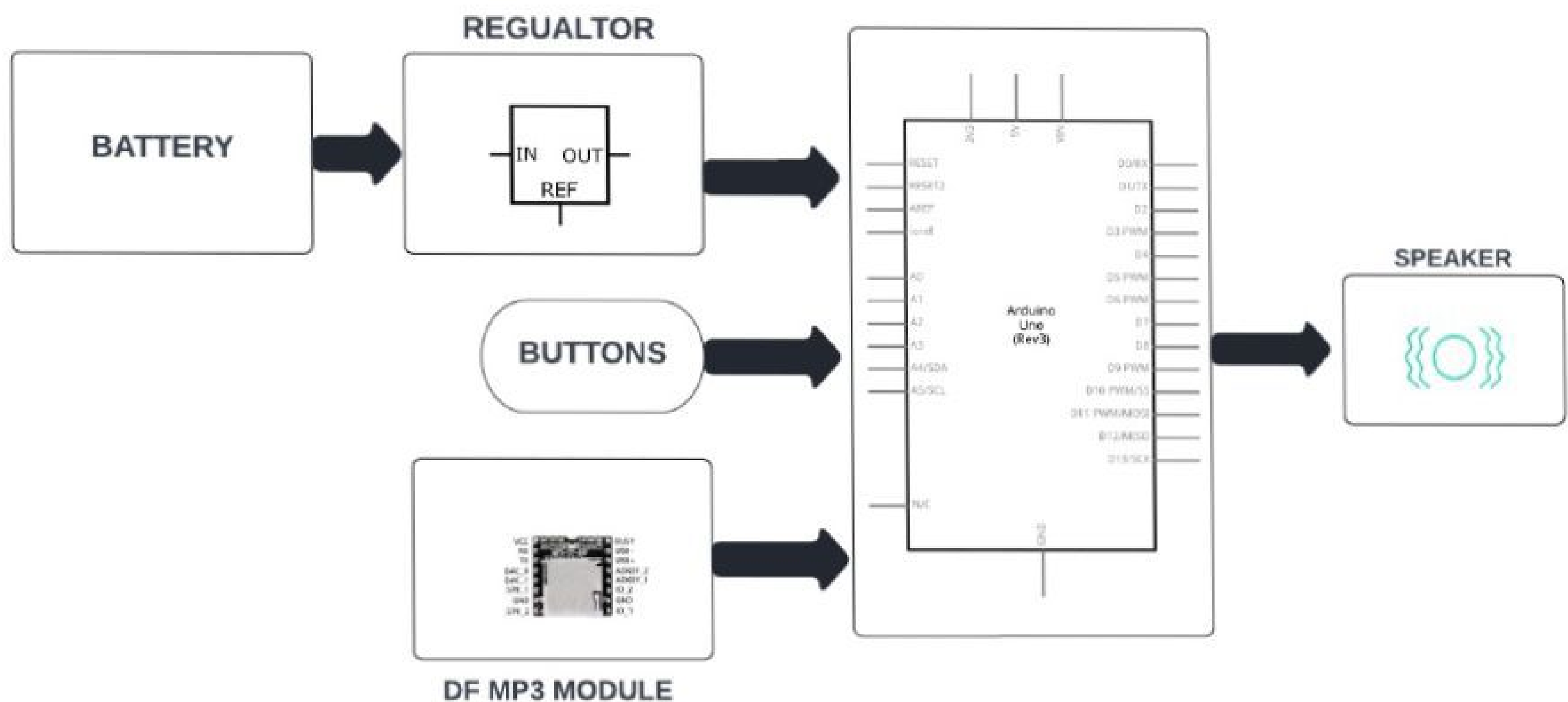
- Play/Pause
- Previous Song
- Next Song

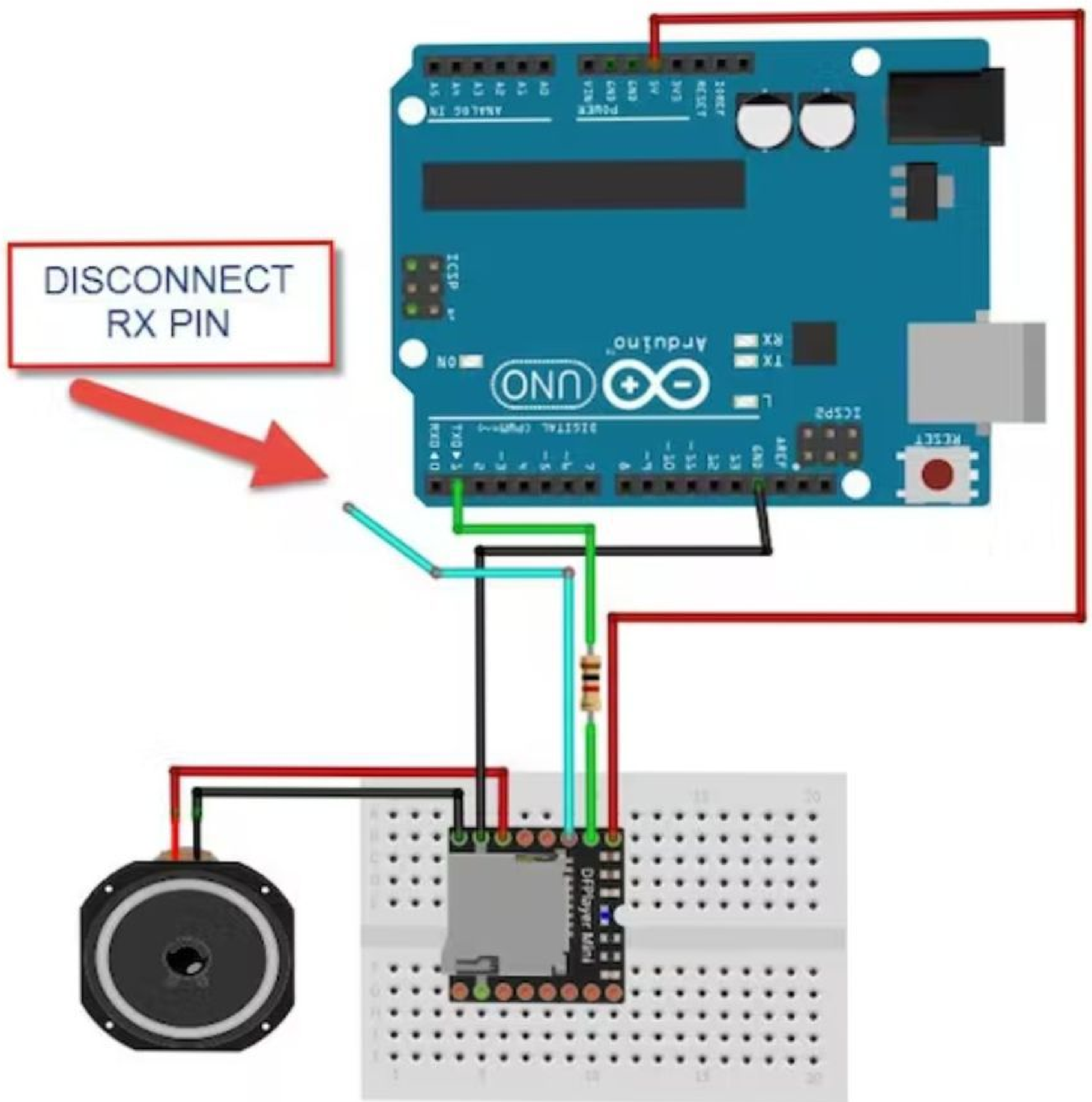
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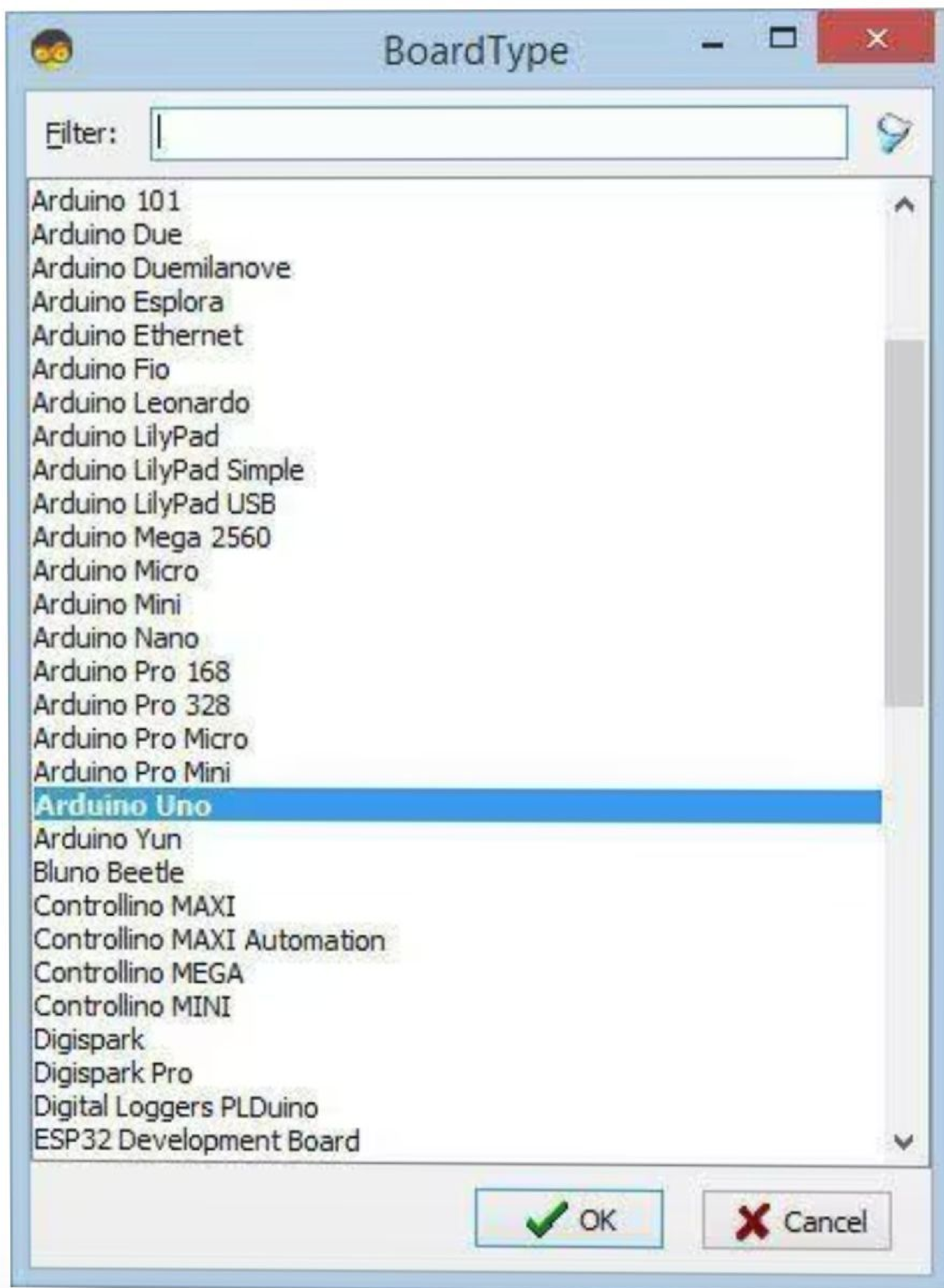
- Car navigation voice broadcast;
- Road transport inspectors, toll stations voice prompts;
- Railway station, bus safety inspection voice prompts;
- Electricity, communications, financial business hall voice prompts;
- Vehicle into and out of the channel verify that the voice prompts;
- The public security border control channel voice prompts;
- Multi-channel voice alarm or equipment operating guide voice;
- The electric tourist car safe driving voice notices;
- Electromechanical equipment failure alarm;
- Fire alarm voice prompts;

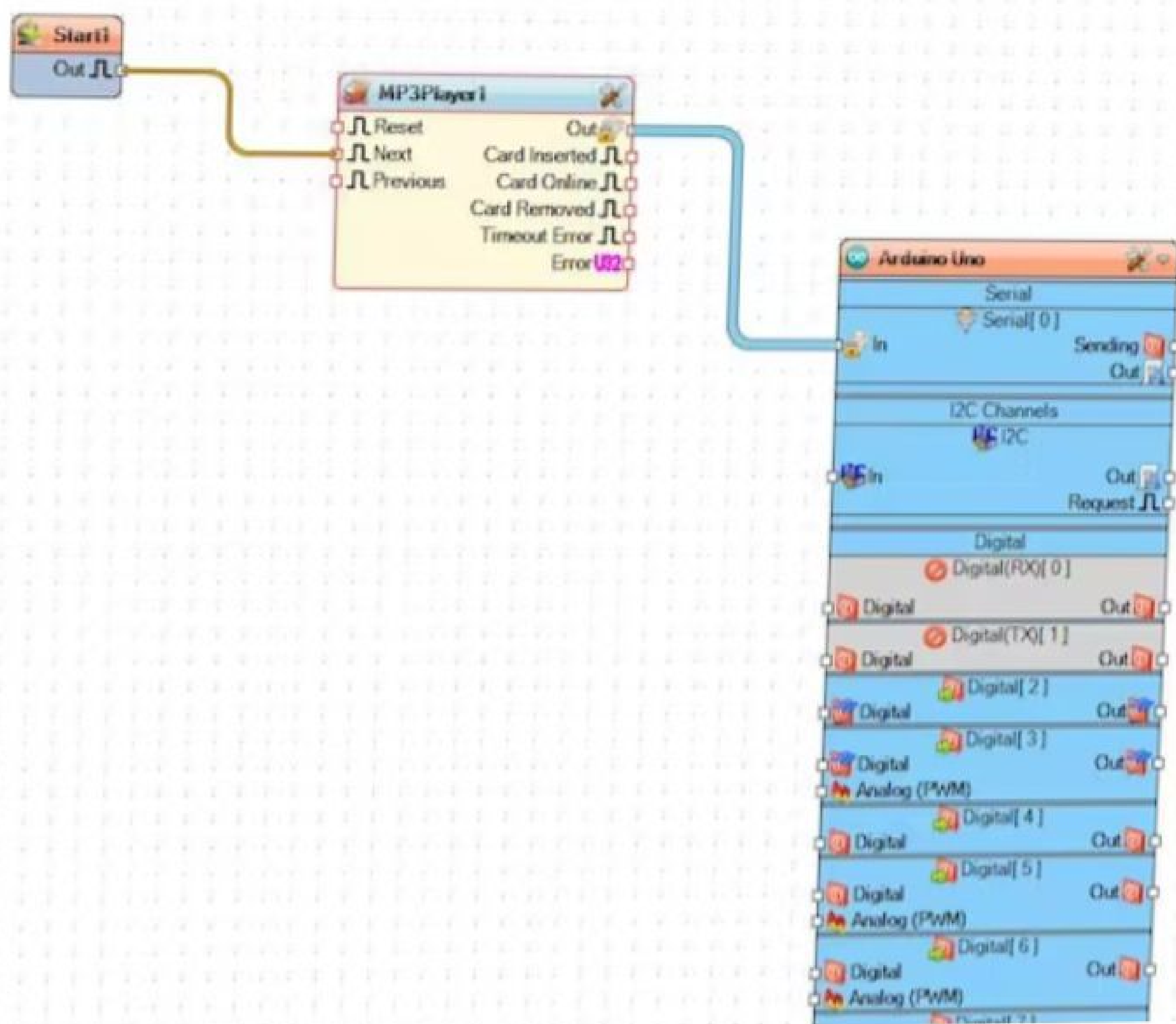
- *Regulator Circuitry*
- *Switches*
- *LED' s*
- *PCB Board*
- *Resistors*
- *Capacitors*
- *Transistors*
- *Cables and Connectors*

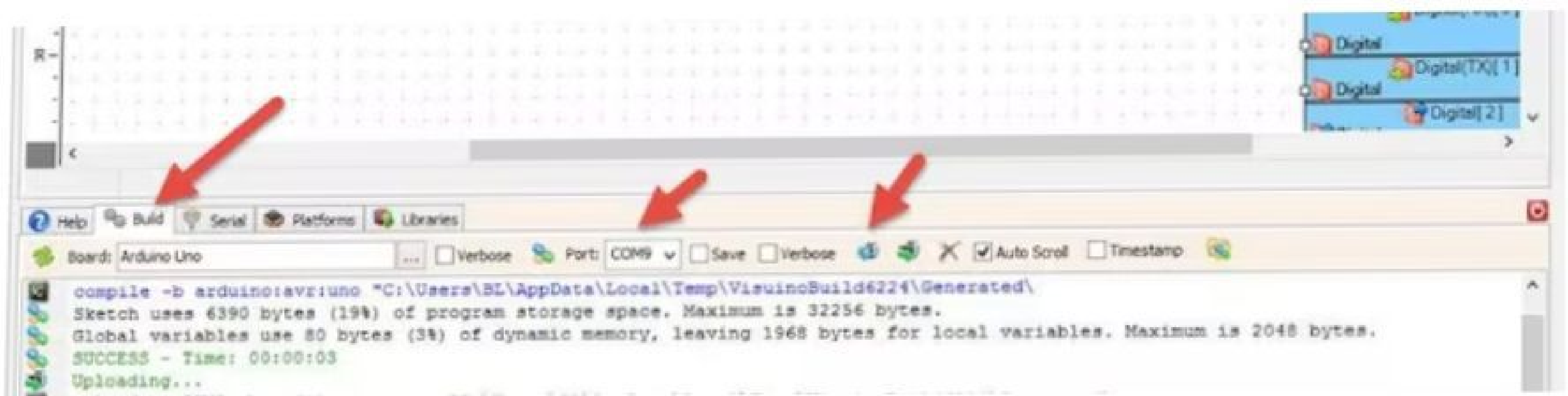
Block Diagram







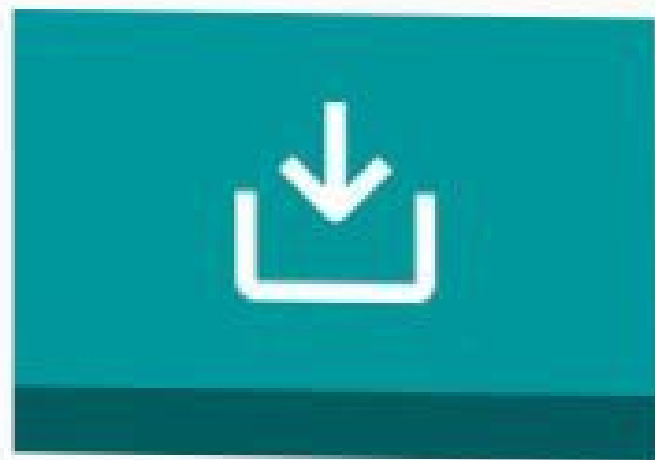




CODE

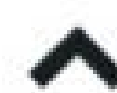


Visuino File Arduino



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SCHEMATICS



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