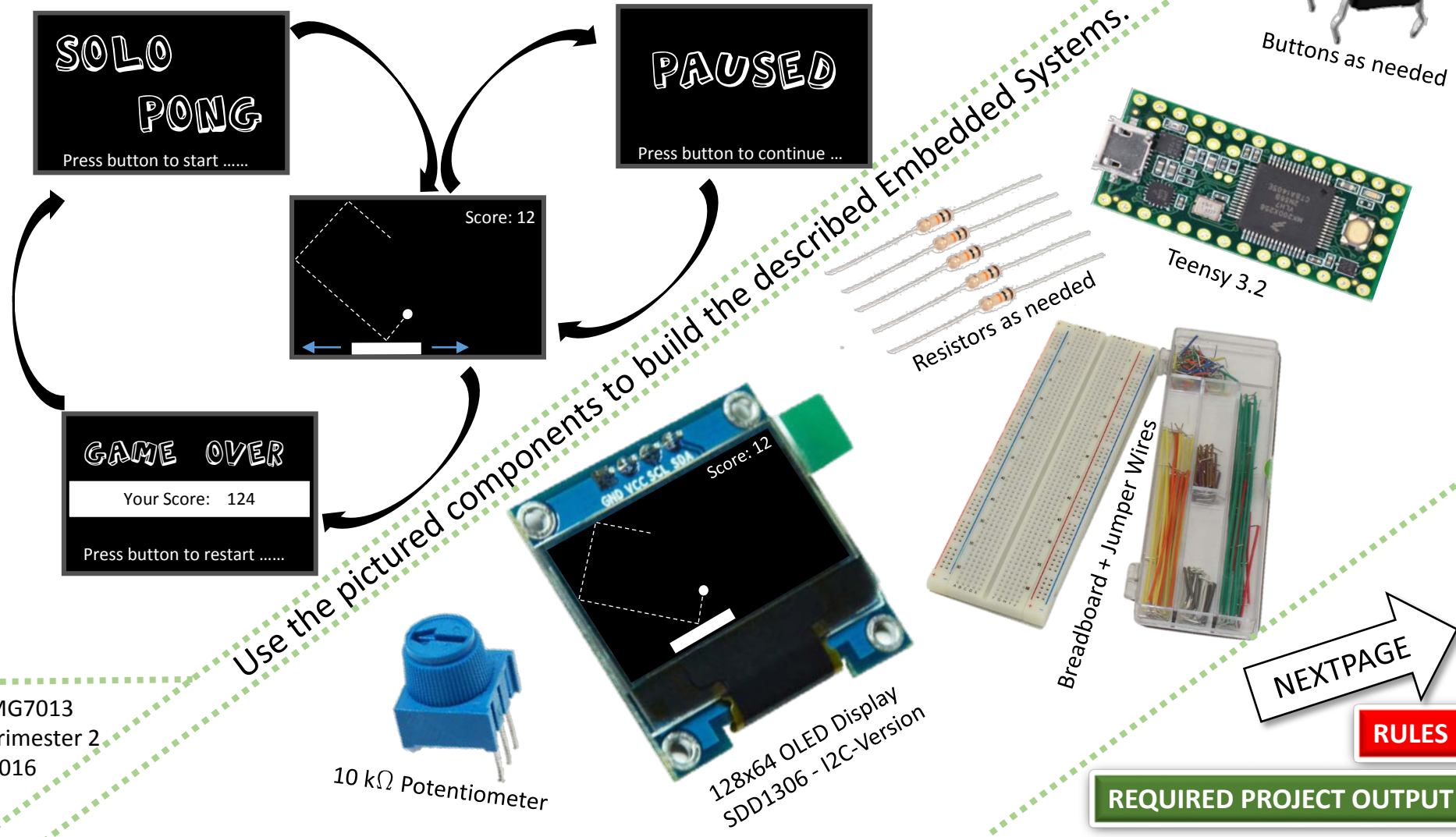


Implement the famous game Pong as a single player version

- Game Design and Implementation as a state-machine (enum + switch... case...)
- Incorporate START | PAUSE | RESTART button(s)
- Use the Potentiometer as the paddle controller (left <-> right)



RULES:

- Implement a start-screen, the actual game and an endscreen
- Display a player score (game-screen and end-screen)
- Implement a continuous increase of the balls velocity
- Implement debouncing of your button(s)
- Design and Implementation as a state-machine
- Feel free to use the Adafruit libraries: Adafruit_SSD1306 and Adafruit_GFX

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Questions:

This Project accounts for 20% of your overall course mark.

REQUIRED PROJECT OUTPUT:

- Working hardware prototype
- Video of yourself explaining the operation of your system
- Project report, including
 - General project description (purpose, ...)
 - Describe your design process (**incl. state – transition diagram**)
 - Schematic (e.g. Fritzing) + Why did you choose certain components and their values
 - Source Code (well commented)
 - Limitations of your project + possible future improvements
 - Appendix with relevant datasheets(if available)
 - Use of proper APA referencing



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