

 PROJECT #1 PROPOSAL

**Name(s): Grace Steeves**

**Project: Raspberry Pi Arcade Cabinet**

**Part A: Brainstorming...**

* **describe your project idea(s)**

**A wooden arcade cabinet with joysticks and buttons that can have 2 player games.**

* **List your learning objectives**

**assemble wooden cabinet**

**inserting and wiring buttons and joysticks to raspberry pi.**

**Set up Raspberry Pi and download ROMS**

**Configure controls**

**spray painting the cabinet and creating vinyl stickers for the buttons**

* **State the goal(s) of your project**

**To be able to play and load retro arcade games powered by the raspberry pi.**

**Part B: Electronic Resources…List active hyperlinks to any relevant online resources**

[**http://www.instructables.com/id/2-Player-Bartop-Arcade-Machine-Powered-by-Pi/**](http://www.instructables.com/id/2-Player-Bartop-Arcade-Machine-Powered-by-Pi/)

[**https://www.iliketomakestuff.com/make-bar-top-arcade-cabinet/**](https://www.iliketomakestuff.com/make-bar-top-arcade-cabinet/)

[**https://www.iliketomakestuff.com/raspberry-pi-arcade-part-1/**](https://www.iliketomakestuff.com/raspberry-pi-arcade-part-1/)

[**http://www.instructables.com/id/how-to-make-a-vintage-arcade-marquee/**](http://www.instructables.com/id/how-to-make-a-vintage-arcade-marquee/)

[**https://www.youtube.com/watch?time\_continue=505&v=X6IX27FILus**](https://www.youtube.com/watch?time_continue=505&v=X6IX27FILus)

[**https://www.youtube.com/watch?v=NUmrwvQ0reI**](https://www.youtube.com/watch?v=NUmrwvQ0reI)

[**https://github.com/retropie/retropie-setup/wiki/Running-ROMs-from-a-USB-drive**](https://github.com/retropie/retropie-setup/wiki/Running-ROMs-from-a-USB-drive)

[**https://lifehacker.com/the-always-up-to-date-guide-to-setting-up-your-raspberr-1781419054**](https://lifehacker.com/the-always-up-to-date-guide-to-setting-up-your-raspberr-1781419054)

[**https://lifehacker.com/how-to-turn-your-raspberry-pi-into-a-retro-game-console-498561192**](https://lifehacker.com/how-to-turn-your-raspberry-pi-into-a-retro-game-console-498561192)

[**https://www.makeuseof.com/tag/retro-gaming-on-the-raspberry-pi-everything-you-need-to-know-si/**](https://www.makeuseof.com/tag/retro-gaming-on-the-raspberry-pi-everything-you-need-to-know-si/)

[**https://aloshi.com/emulationstation**](https://aloshi.com/emulationstation)

[**https://supernintendopi.wordpress.com/2013/01/23/an-a-to-z-beginners-guide-to-installing-retropie-on-a-raspberry-pi/**](https://supernintendopi.wordpress.com/2013/01/23/an-a-to-z-beginners-guide-to-installing-retropie-on-a-raspberry-pi/)

[**https://www.youtube.com/watch?v=hpLp929pM4c&feature=youtu.be**](https://www.youtube.com/watch?v=hpLp929pM4c&feature=youtu.be)

**Part C: Planning…**

* **Materials list [NOTE: if we do not have it, include link to purchase from Amazon.ca]**

**Raspberry Pi**

**Clear Case For Pi**

**Heatsink For Pi**

**8 GB SD Card**

**4 Way Plug Power Bar**

**Fused switched mains inlet socket**

**monitor with built-in speakers**

**HDMI To DVI Cable**

**Joysticks + buttons + USB interface**

**12mm MDF board 1829 x 607**

**9mm MDF board 1829 x 607**

**6mm MDF board 1829 x 607**

**3m x 15mm coloured t-molding**

**750ml all-purpose white primer**

**400ml matte black spray paint**

**600mm brass piano hinge**

**Plexiglass 500 x 240mm**

**Flexible LED strip kit**

**USB keyboard and mouse**

**Screwdriver**

**Drill with ~28mm, ~12mm, and ~2mm bits**

**Clamps**

**Table saw**

**Jigsaw**

**Router**

**Sandpaper**

**Filler**

**Wood glue**

**Screws**

**Paint roller and small brush**

* **Designs…Include any sketches/pictures and/or links to videos**

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[**http://www.arcadecollecting.com/caga/marquees/**](http://www.arcadecollecting.com/caga/marquees/)