

FINAL PROJECT PROPOSAL

**Names: Dylan Linklater**

**Project: Retro Arcade Machine**

**Part A: Project Ideas & Objectives**

**To make a table top arcade machine with a raspberry pi. The arcade would have a joy stick and 2 buttons (A and B). For the screen I will probably use an old computer monitor. And for the Buttons I was thinking of using the vinyl cutter to cut out letters and designs for the buttons and shell for the machine. And also use flora for lights.**

**Part B: Electronic Resources**

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

[**http://learn.adafruit.com/running-opengl-based-games-and-emulators-on-adafruit-pitft-displays/retropie-setup**](http://learn.adafruit.com/running-opengl-based-games-and-emulators-on-adafruit-pitft-displays/retropie-setup)

[**http://blog.petrockblock.com/retropie/**](http://blog.petrockblock.com/retropie/)

[**https://www.raspberrypi.org/**](https://www.raspberrypi.org/)

**Part C: Materials, Design**

**-Micro SD Card 8GB**

**-Raspberry Pi**

**-IPAC 2 Controller (**[**http://www.ultimarc.com/store/section.php?xSec=2**](http://www.ultimarc.com/store/section.php?xSec=2)**)**

**-Female Wire Connectors (**[**http://www.amazon.com/gp/product/B001766LZO/ref=as\_li\_qf\_sp\_asin\_il\_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=B001766LZO&linkCode=as2&tag=ilik-20&linkId=ARLA47WAKRAV2AQH**](http://www.amazon.com/gp/product/B001766LZO/ref=as_li_qf_sp_asin_il_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=B001766LZO&linkCode=as2&tag=ilik-20&linkId=ARLA47WAKRAV2AQH)**)**

**-HDMI Monitor For Screen**

**-Wi-Fi USB Adapter**

**-LEDS for buttons if possible**

**-HDMI to VGA Converter if we can’t get a monitor with a HDMI port (**[**https://www.amazon.ca/Cable-Matters-Active-Adapter-Black/dp/B00879DM56?ie=UTF8&gclid=CIfK\_8S2oswCFZSEaQodSY8NmA&redirect=true**](https://www.amazon.ca/Cable-Matters-Active-Adapter-Black/dp/B00879DM56?ie=UTF8&gclid=CIfK_8S2oswCFZSEaQodSY8NmA&redirect=true)**)**

**-Hook up Wires (**[**http://www.amazon.com/gp/product/B00B4ZRPEY/ref=as\_li\_qf\_sp\_asin\_il\_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=B00B4ZRPEY&linkCode=as2&tag=ilik-20&linkId=IQRDVSW4F6KSCUJT**](http://www.amazon.com/gp/product/B00B4ZRPEY/ref=as_li_qf_sp_asin_il_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=B00B4ZRPEY&linkCode=as2&tag=ilik-20&linkId=IQRDVSW4F6KSCUJT)**)**

**[](http://www.google.ca/url?url=http://www.aliexpress.com/popular/table-top-games.html&rct=j&frm=1&q=&esrc=s&sa=U&ved=0ahUKEwiAlO7Ms5jMAhVnsoMKHbuoC1AQwW4IOzAT&usg=AFQjCNG2_Oz8A-sSC2SDUwXInCO3m6Fjuw) **