Hardware Research For our project Initial development

- Raspberry pi 4
  https://www.jaycar.co.nz/raspberry-pi-4b-single-board-computer-8gb/p/XC9104?gclid=CjwKCAjw9-KTBhBcEiwAr19ig9kgnr_pBSDnfiwG09E1d7PLYt6-pSV68qGvcH92tX7uCiZDIde7cxoCC28QAvD_BwE 8GB

- Raspberry pi camera
  https://www.pbtech.co.nz/product/SEVRBP0263/Raspberry-Pi-HQ-Camera-12-MP-Official-High-Quality?qr=GShopping&gclid=CjwKCAjw682TBhATEiwA9crl30Gj49wFzyIFkJHNR_Dw-4iRnx1riqbvHI5ZHpzmYk_YwVt0p-ZtlxoCGVEQAvD_BwE

- Battery pack

- Fan (cooling system)
  https://www.digikey.co.nz/en/products/detail/dfrobot/FIT0816/14824958?utm_adgroup=Thermal%20-%20Heat%20Sinks&utm_source=google&utm_medium=cpc&utm_campaign=Shopping_Product_Fans%2C%20Thermal%20Management&utm_term=&productid=14824958&gclid=CjwKCAjw9-KTBhBcEiwAr19ig-NPhdu5OqaBEuvy6gbx6aeDlJtHoGCVNIaHBFhf-Orq4uzq1e0NvRoCRo0QAvD_BwE

- Wide Angle Lens (6mm)
  https://www.aliexpress.com/item/4001116380549.html?_randl_currency=NZD&_randl_shipto=NZ&src=google&aff_fcid=992419767d4549e0bdfc1ff45bf814f1-1652084288891-03067-UneMJZVf&aff_fsk=UneMJZVf&aff_platform=aaf&sk=UneMJZVf&aff_trace_key=992419767d4549e0bdfc1ff45bf814f1-1652084288891-03067-UneMJZVf&terminal_id=86dbafb1fed048eabc03f917af8ad384&afSmartRedirect=y

- Case for Raspberry Pi
  https://www.jaycar.co.nz/official-raspberry-pi-4b-case-red-and-white/p/XC9110?pos=3&queryId=338e19a6e97d100f0f9dd851f260c41e&sort=relevance

https://www.aliexpress.com/item/1005003518762495.html?_randl_currency=NZD&_randl_shipto=NZ&src=google&aff_fcid=5a964e53334242579aa2650e8dadb1b8-1651805800302-00366-UneMJZVf&aff_fsk=UneMJZVf&aff_platform=aaf&sk=UneMJZVf&aff_trace_key=5a964e53334242579aa2650e8dadb1b8-1651805800302-00366-UneMJZVf&terminal_id=86dbafb1fed048eabc03f917af8ad384&afSmartRedirect=y	Raspberry Pi 8GB

https://www.pbtech.co.nz/product/SEVRBP0263/Raspberry-Pi-HQ-Camera-12-MP-Official-High-Quality?qr=GShopping&gclid=CjwKCAjw682TBhATEiwA9crl30Gj49wFzyIFkJHNR_Dw-4iRnx1riqbvHI5ZHpzmYk_YwVt0p-ZtlxoCGVEQAvD_BwE	Raspberry Pi High Quality Camera
https://www.trademe.co.nz/a/marketplace/electronics-photography/other-electronics/electronic-components/other/listing/3587840545 https://www.jaycar.co.nz/power-pack-for-raspberry-pi-with-li-ion-battery/p/XC9060?gclid=EAIaIQobChMIwP72kIvR9wIVCB4rCh1eMAepEAQYASABEgI8a_D_BwE	Li-ion Battery Pack
https://uk.pi-supply.com/products/pijuice-standard	PiJuice HAT- A portable Power platform for every Raspberry pi
https://nz.rs-online.com/web/p/raspberry-pi-hats-add-ons/2020449?cm_mmc=NZ-PLA-DS3A-_-google-_-PLA_NZ_EN_Raspberry_Pi_%26_Arduino_%26_Development_Tools_Whoop-_-(NZ:Whoop!)+Raspberry+Pi+HATs+%26+Add-ons-_-2020449&matchtype=&pla-303419454625&gclid=EAIaIQobChMIk96135DR9wIVupNmAh1_2wPGEAQYAiABEgLgwvD_BwE&gclsrc=aw.ds	Raspberry pi 4 Fan Kit
https://nz.rs-online.com/web/p/raspberry-pi-hats-add-ons/2020457?cm_mmc=NZ-PLA-DS3A-_-google-_-PLA_NZ_EN_Raspberry_Pi_%26_Arduino_%26_Development_Tools_Whoop-_-(NZ:Whoop!)+Raspberry+Pi+HATs+%26+Add-ons-_-2020457&matchtype=&pla-303419455185&gclid=EAIaIQobChMIk96135DR9wIVupNmAh1_2wPGEAQYASABEgJfH_D_BwE&gclsrc=aw.ds	Raspberry pi tower fan
https://thepihut.com/collections/raspberry-pi-cooling/products/raspberry-pi-4-case-fan	Cooling system for Raspberry pi 4 (recommended)

https://nz.banggood.com/Raspberry-Pi-4-Model-B-Dual-Fan-with-Heat-Sink-Ultimate-Double-Cooling-Fans-for-Raspberry-Pi-4B-or-3B+-p-1942967.html?utm_source=googleshopping&utm_medium=cpc_organic&gmcCountry=NZ&utm_content=minha&utm_campaign=minha-nz-en-pc&currency=NZD&cur_warehouse=CN&createTmp=1&utm_source=googleshopping&utm_medium=cpc_us&utm_campaign=aceng-pmax-nz-all-220402-bay&utm_content=bay&ad_id=&gclid=Cj0KCQjw1N2TBhCOARIsAGVHQc5FI4pN9dm-p1LxohEaminPRl8uxsQ4AbKKOuPOf0dL06PBVVSwgUYaAraDEALw_wcB	52Pi Extreme Cooling Fan kit for Raspberry pi
https://www.aliexpress.com/item/4001116380549.html?_randl_currency=NZD&_randl_shipto=NZ&src=google&aff_fcid=992419767d4549e0bdfc1ff45bf814f1-1652084288891-03067-UneMJZVf&aff_fsk=UneMJZVf&aff_platform=aaf&sk=UneMJZVf&aff_trace_key=992419767d4549e0bdfc1ff45bf814f1-1652084288891-03067-UneMJZVf&terminal_id=86dbafb1fed048eabc03f917af8ad384&afSmartRedirect=y	6mm wide angle lens
https://nz.rs-online.com/web/p/raspberry-pi/1822096?cm_mmc=NZ-PLA-DS3A-_-google-_-PLA_NZ_EN_Raspberry_Pi_%26_Arduino_%26_Development_Tools_Whoop-_-(NZ:Whoop!)+Raspberry+Pi-_-1822096&matchtype=&pla-300482240867&gclid=CjwKCAjw9-KTBhBcEiwAr19ig6we8YMe5NTL4QGuXfaMzhZaasuPXY8u6e-gofbL3Tq_0hSOF5Ob3BoCz38QAvD_BwE&gclsrc=aw.ds	Raspberry Pi 4 B 4GB
https://nz.rs-online.com/web/p/raspberry-pi-cameras/9132664?cm_mmc=NZ-PLA-DS3A-_-google-_-PLA_NZ_EN_Raspberry_Pi_%26_Arduino_%26_Development_Tools_Whoop-_-(NZ:Whoop!)+Raspberry+Pi+Cameras-_-9132664&matchtype=&aud-813230962291:pla-335061582843&gclid=CjwKCAjw9-KTBhBcEiwAr19igyWys5iOl561zAmjRjlpV7z4BrRQseCcg5rhczYIW7SG-Lju95gjdxoCZp0QAvD_BwE&gclsrc=aw.ds	Raspberry Pi, Camera 3280 x 2464 pixels Resolution

https://www.aliexpress.com/item/1005003977359151.html?_randl_currency=NZD&_randl_shipto=NZ&src=google&aff_fcid=e9da598e372040f89cc93715fe50b771-1652134201868-01077-UneMJZVf&aff_fsk=UneMJZVf&aff_platform=aaf&sk=UneMJZVf&aff_trace_key=e9da598e372040f89cc93715fe50b771-1652134201868-01077-UneMJZVf&terminal_id=bbbf240ed43f46c9ac57bccdd68088ff&afSmartRedirect=y	Raspberry Pi Li-polymer Battery
https://www.digikey.co.nz/en/products/detail/dfrobot/FIT0816/14824958?utm_adgroup=Thermal%20-%20Heat%20Sinks&utm_source=google&utm_medium=cpc&utm_campaign=Shopping_Product_Fans%2C%20Thermal%20Management&utm_term=&productid=14824958&gclid=CjwKCAjw9-KTBhBcEiwAr19ig_OuLWhfjyahuFOfqrHd3ll939-rX0eISysevDou87D9AKTzFz7iEhoCgXoQAvD_BwE	Fan FIT0816
https://nz.rs-online.com/web/p/raspberry-pi-hats-add-ons/2020457	Fan 52Pi ICE Tower Cooling
https://nz.element14.com/raspberry-pi/rpi-6mm-lens/rpi-6mm-wide-angle-lens/dp/3381607?gclid=CjwKCAjw9-KTBhBcEiwAr19igwq48CP8mTQxenm2m_jn9BvPbwHRk3kiPxQTMLPUvFofjmKBzyZjcxoCffIQAvD_BwE&CMP=KNC-GNZ-SHOPPING-PMAX-3381607	RPI-6MM LENS
https://www.aliexpress.com/item/1005003154058721.html?_randl_currency=NZD&_randl_shipto=NZ&src=google&aff_fcid=8c2e119aae4b43cb84fe58040b119f3b-1652140137469-06214-UneMJZVf&aff_fsk=UneMJZVf&aff_platform=aaf&sk=UneMJZVf&aff_trace_key=8c2e119aae4b43cb84fe58040b119f3b-1652140137469-06214-UneMJZVf&terminal_id=bbbf240ed43f46c9ac57bccdd68088ff&afSmartRedirect=y	Raspberry Pi

https://www.raspberrypi.com/products/camera-module-v2/ https://www.pbtech.co.nz/product/SEVRBP0339/Raspberry-Pi-Official-Camera-Board-V2--V21-8-Megap?qr=GShopping&gclid=Cj0KCQjw4PKTBhD8ARIsAHChzRI_aw0sSoamlLjb9d72K0QVekaqMNoQOJfj6q-q8NoidYYG_QEIZE8aAp1XEALw_wcB	Raspberry pi module 2 camera, less bulky than the high quality camera