Amvi Lab Experiment Robot Component List

Robot System:

Turtlebot4 Lite:

* Spec sheet: <https://clearpathrobotics.com/turtlebot-4/>
* Shopping link: <https://www.robotshop.com/products/clearpath-robotics-turtlebot-4-lite-mobile-robot>
* Cost: $1,336.99 + shipping
* Comment: Over the described budget

Camera System:

Raspberry Pie 4 model B 2 GB:

* Spec sheet: <https://www.raspberrypi.com/products/raspberry-pi-4-model-b/specifications/>
* Shopping link: <https://www.adafruit.com/product/4295?src=raspberrypi>
* Cost: $45+ shipping
* Comment: There might be some working ones left over in the lab

Portable battery:

* Shopping link: <https://www.amazon.com/LOVELEDI-Portable-Charger-Power-Bank-15000mAh-Compatible-Smartphones/dp/B0B45GX5V7>
* Cost: $25+ shipping
* Comment: Can replace with another of the same specs

Cameras X4:

* Shopping link: <https://www.amazon.com/lezoura-Microphone-Correction-Noise-Cancelling-Conferencing/dp/B0CWGMQSLY/ref=sr_1_6?crid=2PTMO18E3AZ8T&dib=eyJ2IjoiMSJ9.3mUQhDZpMiS6d7Og6S_VNjk0H5T6fVfFSM7VA0fcDiIk_fOeYl6SdqP_6cJOI7OVrPAv59FH-nViCQQr8CVEtBQWCKQBFR9WuCppdmhnW4ImS9g3ogf5kSEpwH6_FAWa5fLC4EhUbAfKZ48OXhodOZOcMzVP-eT4PVllp6PyZpF0fnVFc68IIAjOkEEByqXLLIb6NkrzzcAm3RDHx3OLkJujxTcKtCrsel95UQ8O4YE.qosC-Ne1WA8-MpetLZ3lkHtN6ai5MBvW2fd-7lLnS3U&dib_tag=se&keywords=usb+webcam&qid=1719927839&sprefix=usb+webcam%2Caps%2C143&sr=8-6>
* Cost: $15+ shipping
* Comment: Poor color performance, currently testing

Mounting Components:

* All 3D printed total cost estimated at $15 with university wait times