

AutonomousPrime

Order Proposal

Team Dec1721

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Parts List

Onboard Computer

Minimum Requirements

- 3 USB ports
- Run the Neural Network in real time
- Not too big
- 5v power
- More that 16 GB of Memory

After the work we completed first semester, we feel confident our initial experiments don't require an Nvidia jetson board and will instead be using the Odroid-XU4 we have been using for testing purposes. However, the current one we have been using is on loan from a team member.

Model	Cost	Condensed link
Odroid XU4	\$59.00	https://goo.gl/9ZQ9XO

Embedded Coprocessor

Minimum Requirements

- 4 digital I/O pins
- USB Connection

After using the Arduino Uno for our testing in the first semester, we have found this new device that has 3 pin connections that will make connecting the components controlled by this device much simpler. This coprocessor is also fully compatible with Arduino libraries, and all pins are mapped the same as the Uno.

Model	Cost	Condensed link
Romeo BLE	\$39.50	https://goo.gl/KhL7NK

USB Hub

Minimum Requirements

- 4 USB Ports

The amount of USB Devices we need to connect to the onboard computer had become more than intended so we need to get a hub to allow us to connect more devices to the Odroid.

Model	Cost	Condensed Link
iXCC Aluminum 4 Port Compact Portable High Speed USB 3.0 Data Hub for Windows, Mac OS, Linux	\$11.99	https://goo.gl/MjCTe8

Order Summary

Quantity	Category	Model	Cost	Condensed Link
1	Onboard Computer	Odroid XU4	\$59.00	https://goo.gl/9ZQ9XO
1	Embedded Coprocessor	Romeo BLE	\$39.50	https://goo.gl/KhL7NK
1	USB Hub	iXCC Aluminum 4 Port Compact Portable High Speed USB 3.0 Data Hub for Windows, Mac OS, Linux	\$11.99	https://goo.gl/MjCTe8
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	Grand Total (max quantity and before shipping)		\$110.49	