

# Weekly Updates

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P.V.I.R

1/29/19

# Parts Update

- Parts ordering will start on Tuesday 1/29/2019
- First order will consist of sensors and testing material
- We plan to submit the first order on 1/30 due to campus closure on 1/29
- Order Form is shown in next slide

Type	Item	Part Number	Qty	Unit Price	Manufacturer
Sensor	Arduino Gas Sensor	MQ2	2	\$8.50	Grove
Senor	Grove - Infrared Temperature Sensor		2	\$12.50	Grove
Sensor	GROVE - AIR QUALITY SENSOR V1.3		2	\$11.50	Grove
Video	Makerfocus Raspberry Pi Camera Night Vision Camera Adjustabl		1	\$25.99	Waveshare
Testing	30 Pcs Double Sided PCB Board Prototype Kit for DIY, 4 Sizes by		1	\$10.85	Paxcoo
Testing	Jumper Wires Male to Male, Solderless Breadboard and Arduino		1	\$7.89	SIM&NAT
Testing	Breadboard Solderless - 3 ct 400 Pin with 4 Power Rails for Ardui		1	\$7.99	Alleu
Microcontroller	Arduino DUE		1	\$38.50	Arduino



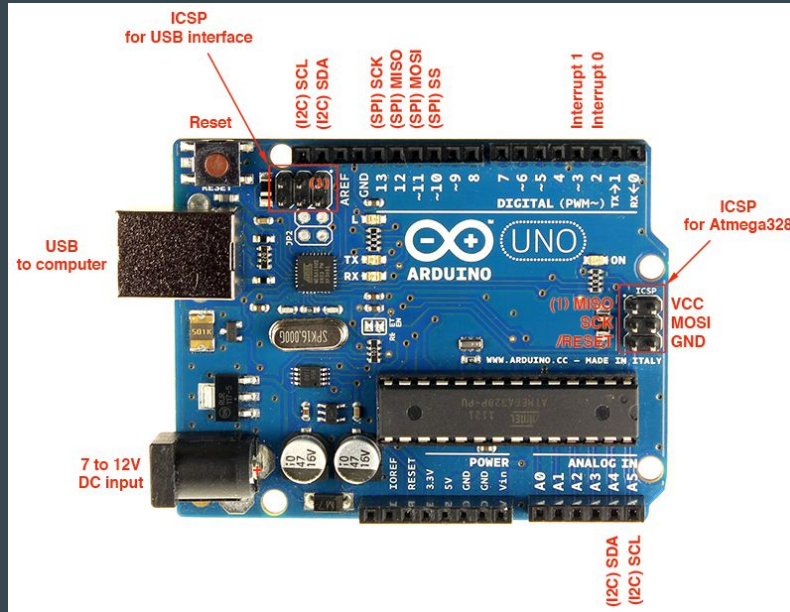
# New Parts - RPi Night Camera

- Good for low light areas
- Smaller and lighter
- Compatible with RPi 2 and 3
- Will need to figure out how to mount



# New Parts - Sensors

- Do not use I2C ports
- Use Analog Input signal ports
- Made by arduino (must have existing libraries)



## GROVE - AIR QUALITY SENSOR V1.3

Code: C000138



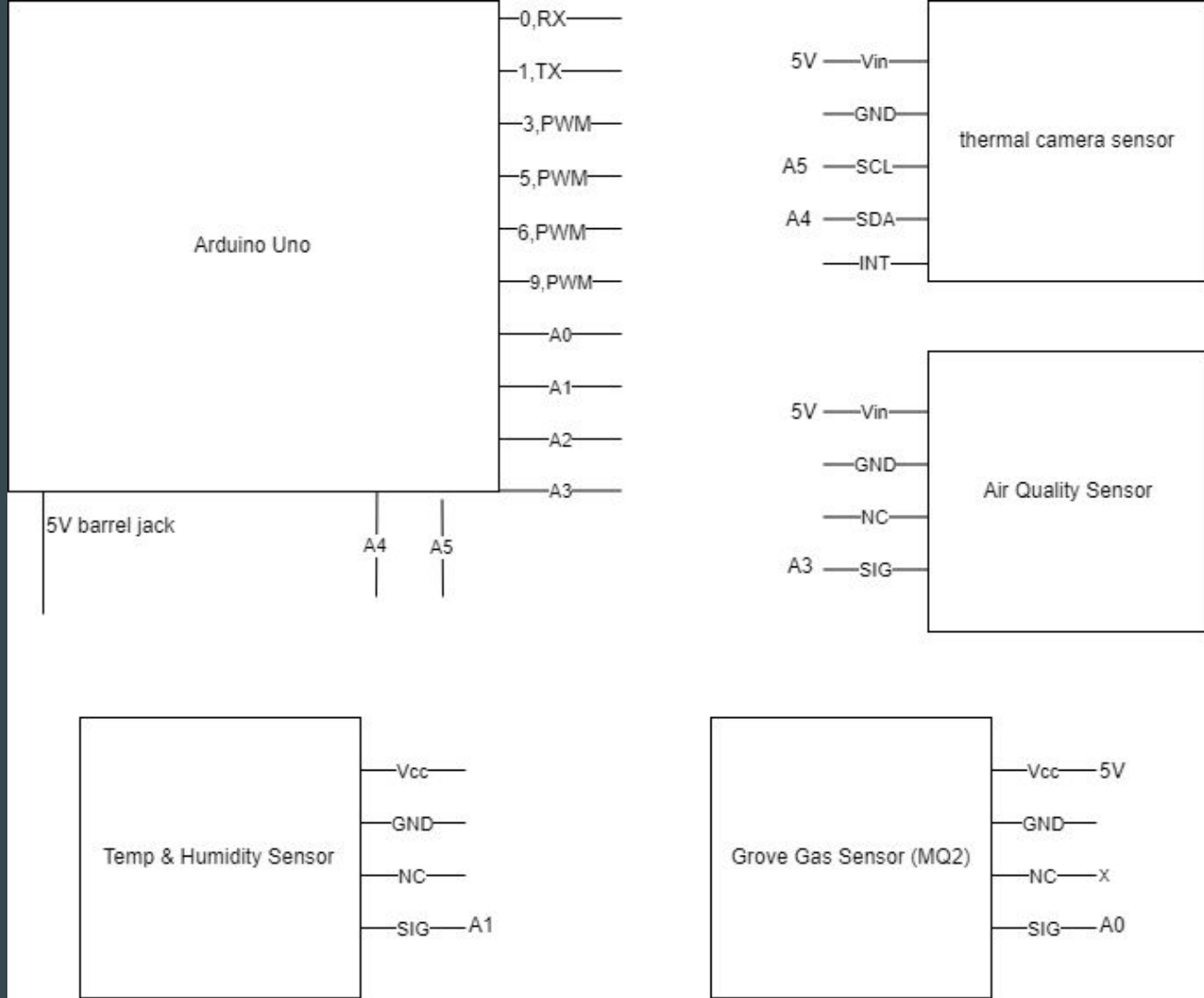
## GROVE - TEMPERATURE & HUMIDITY SENSOR PRO

Code: C000178



# Schematic v 1.0

- 4 sensors & arduino
- A4 & A5 are I2C pins



# Mechanical Arm and GUI

There is currently no updates on the Mechanical Arm and GUI.

Lemek is working on the GUI with RPi

Adrian and Nelson are working on CAD drawing for the different design ideas the team is thinking about.

# Action Items for 2/05/19

Stephanie

- Put in order for parts, get a locker, weekly report, then help Lemek with GUI

Elizabeth

- Mount for RPi camera, protective casing for sensor package

Nelson

- Finish CAD drawing for the lead screw design and begin on the bike chain alternative

Adrian

- Work on CAD drawing for arm design and research part prices

Lemek

- Continue working on GUI - testing GStreamer on RPi

The team will meet in West's Lab on Wednesday to work with the existing robot