

A white banner with a purple NYU torch logo and the text 'NYU' hangs from a pole in front of a classical building with red brick and stone columns. Green tree branches are visible on the right side of the frame.

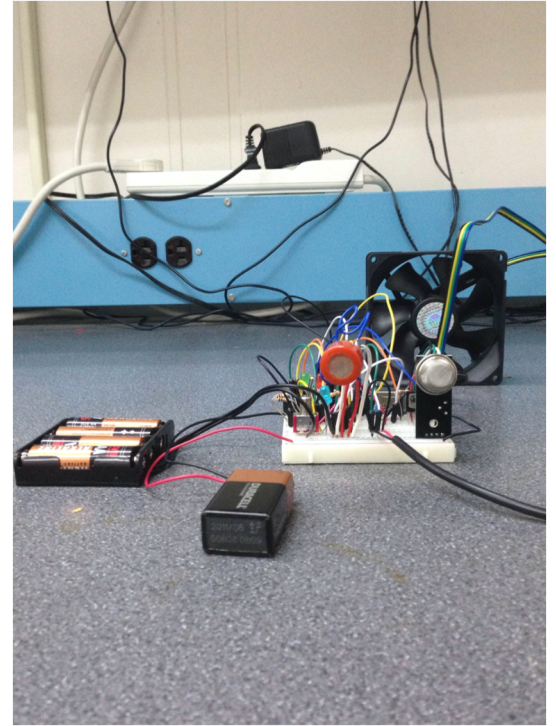
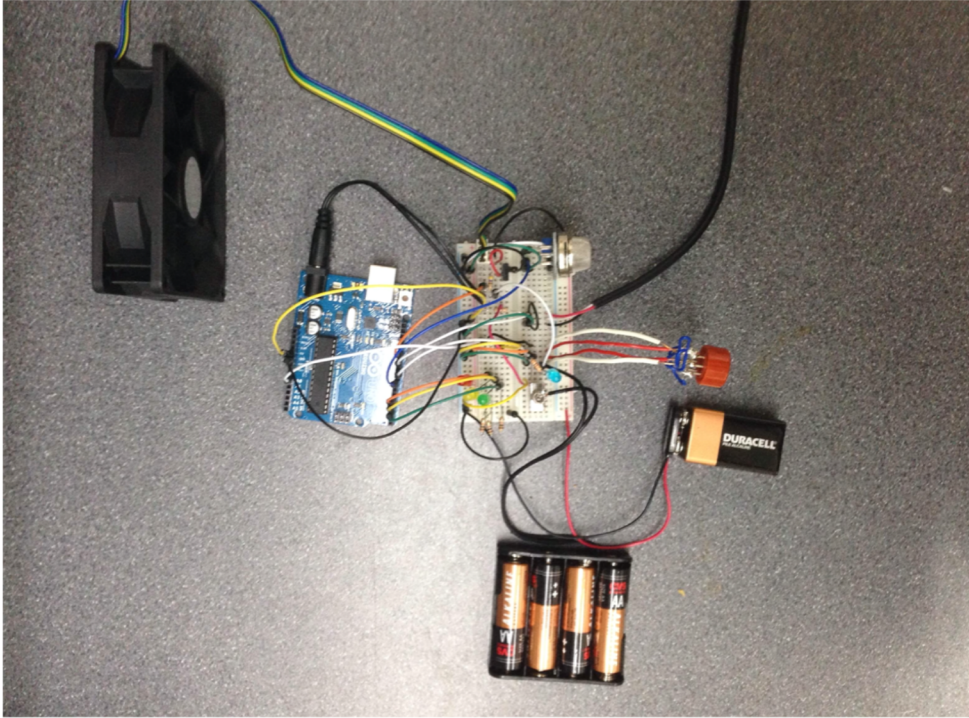
 **NYU** Polytechnic School of Engineering

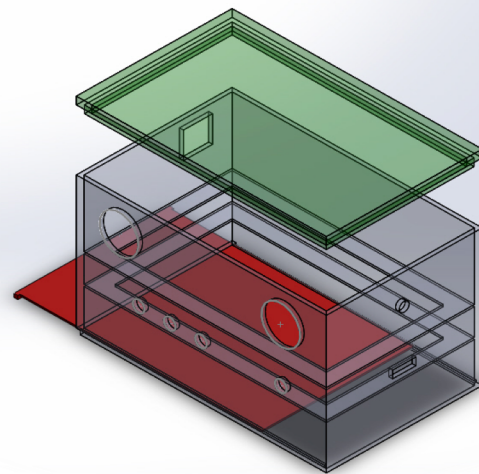
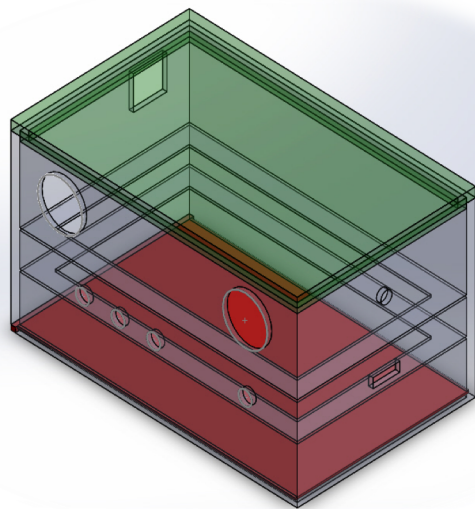
KITCHEN EXHAUST FAN CONTROLLER

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Component	Function	Cost
Arduino UNO	Microprocessor	30\$
MQ 2	LPG sensor	2.58\$
MQ 7	CO sensor	7.25\$
DS18B20	Digital thermometer	9.96\$
Electric components		~5.00\$
Wire and packaging		~5.00\$
Fan	Actuator	5.00\$
		Total ~64.79



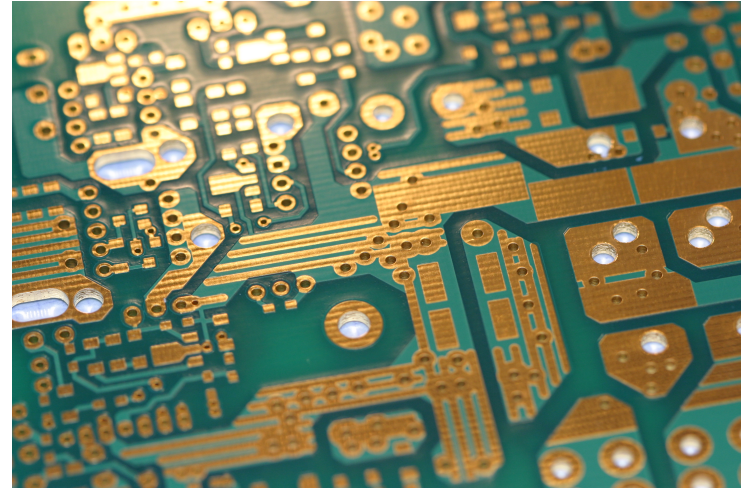


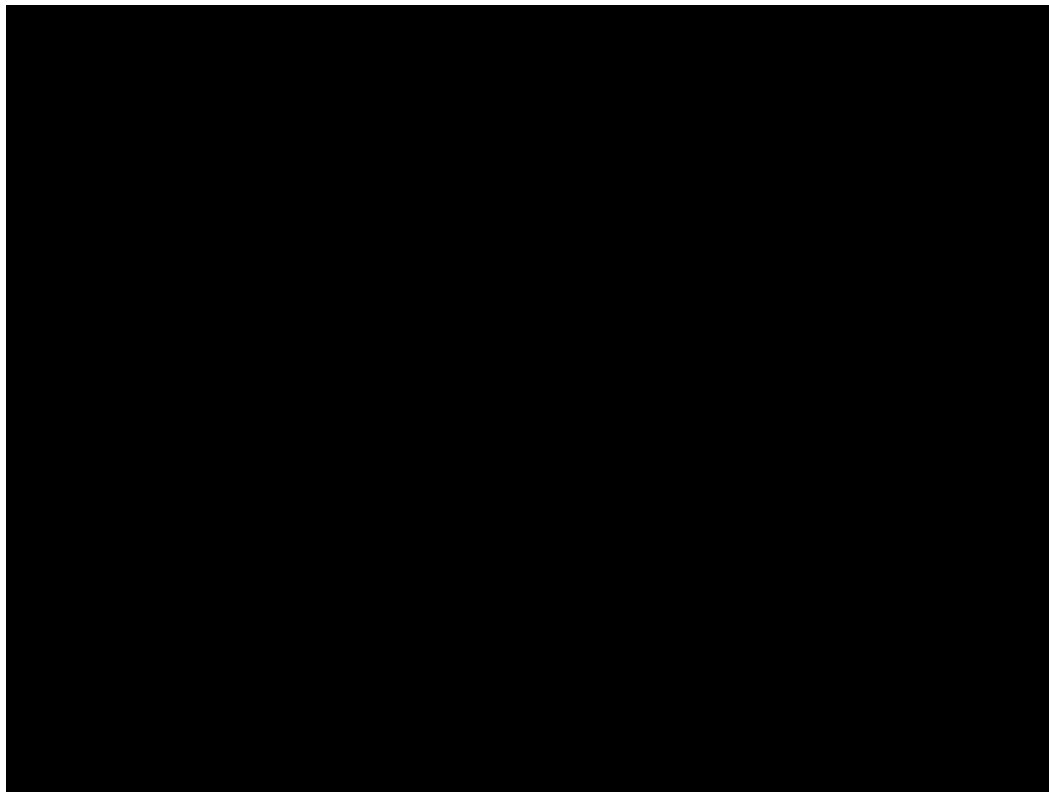


Sensor	Prototype	Final product
MQ 2	Any trace	Any trace
MQ 7	>35 ppm	180 ppm
DS18B20	30°C	45°C

- A switch can be used to disengage the system and an LED shows the ON-OFF status
- It can be mounted on a wall
- The temperature sensor is waterproof and can be placed above the stove

- PIC16F688 is a cheaper alternative microcontroller for mass production
- S208T01 Series solid state relay replaces the transistor as a control switch
- The circuit is done on a printed circuit board following the industry standards
- Professional casing for the device with mounting mechanism





Thank you! Questions?

