



Interactions with Python, Arduino and Kinect

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Image of exuro and poofer going off

recycled stainless steel.

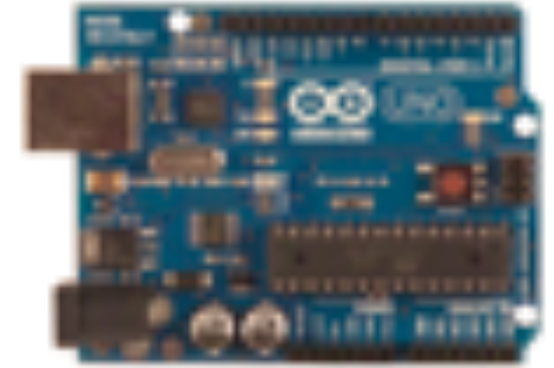
Hardware



Computer



Kinect



Arduino Uno Microcontroller



Servo



Solid State Relay



Asco Solenoid
Valve



Push Button Switch



Neon Transformer



Spark
Plug



Propane Tank



Bill Acceptor

Kinect



- 640 x 480 rgb camera for video infrared projector
- 640 x 480 infrared camera for depth
- 4 microphones array
- 30 fps
- 57° horizontal / 43° vertical field of view

Arduino



Microcontroller	ATmega328
Operating Voltage	5V
Input Voltage	7-12V
Digital I/O Pins	14 (6 w/ PWM)
Analog Input Pins	6
DC Current / I/O Pin	40 mA
Flash Memory	32 KB
SRAM	2 KB
EEPROM	1 KB
Clock Speed	16 MHz

Software



