



Interactions with Python, Arduino and Kinect

Peter Kropf

pkropf@gmail.com

github.com/pkropf/exuro

Poofer!



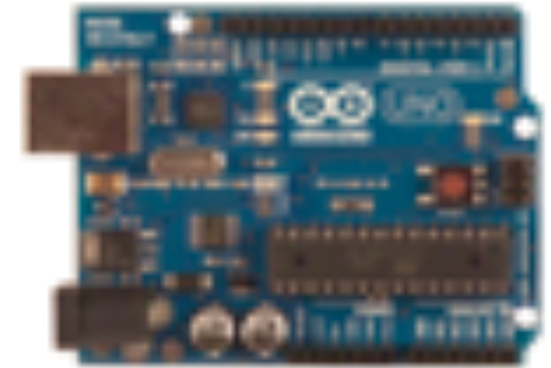
Hardware



Computer



Kinect



Arduino Uno Microcontroller



Servo



Solid State Relay



Asco Solenoid Valve



Push Button Switch



Neon Transformer



Spark Plug



Propane Tank



recycled stainless steel.



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

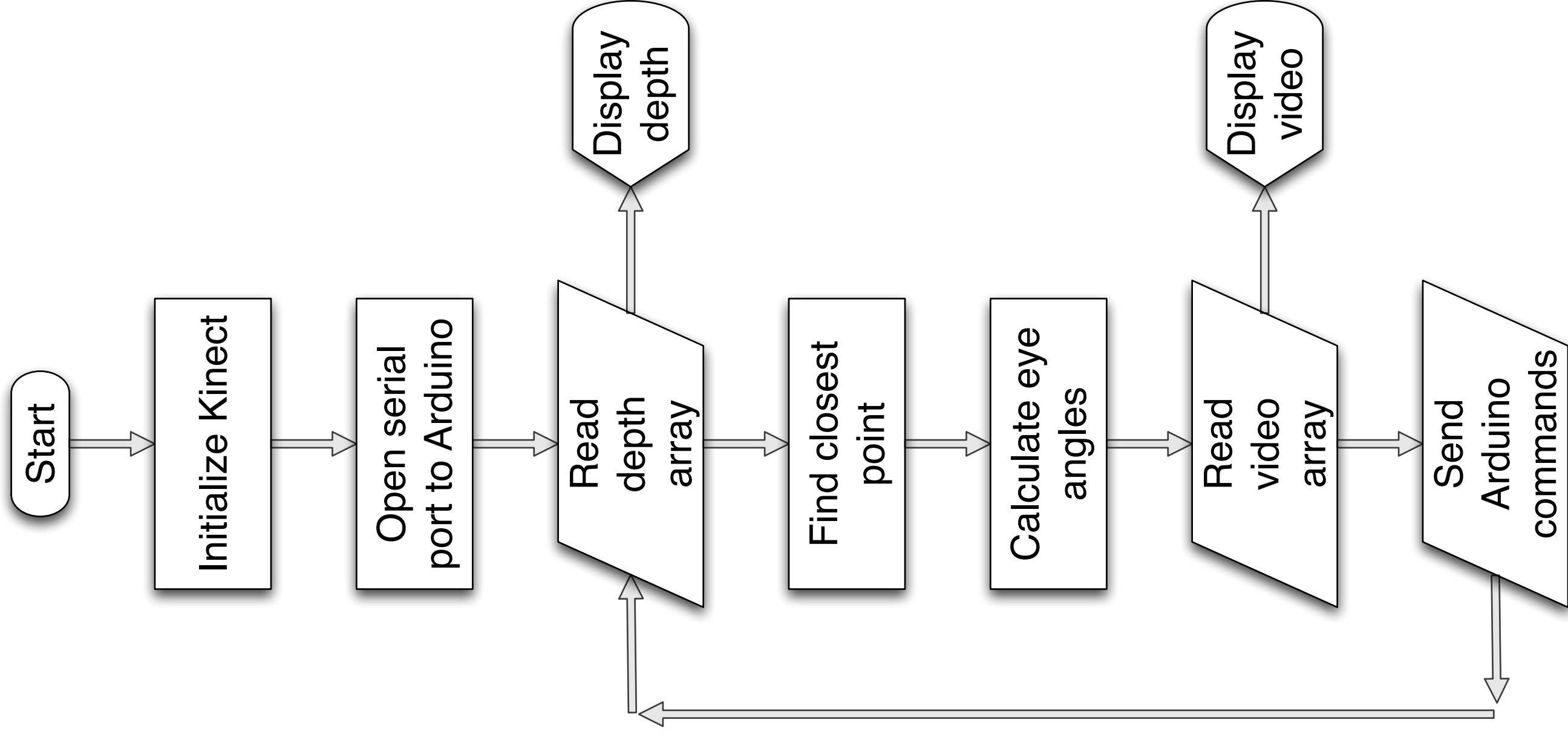
Microcontroller	ATmega328
Operating Voltage	5V
Input Voltage	7-12V
Digital I/O Pins	14 (6 w/ PWM)
Analog Input Pins	6
DC Current / I/O Pin	40 mA
Flash Memory	32 KB
SRAM	2 KB
EEPROM	1 KB
Clock Speed	16 MHz



Software



Computer / Arduino / Kinect Interaction



Arduino Flow

