ICP11 and ICP12

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MonkeyCanCode edited this page 2 days ago · 1 revision

Source

Video - motion sensor

Video - lie detector

Introduction

For ICP 11 and 12, we learned how to use motion sensor with Arduino and how to construct a simple lie detector with Ardino.

Objectives

The objective for this ICP is for us to learn how to use last sensor (motion sensor) and how to construct a simple lie detector with wires and Arduino.

Approaches/Methods

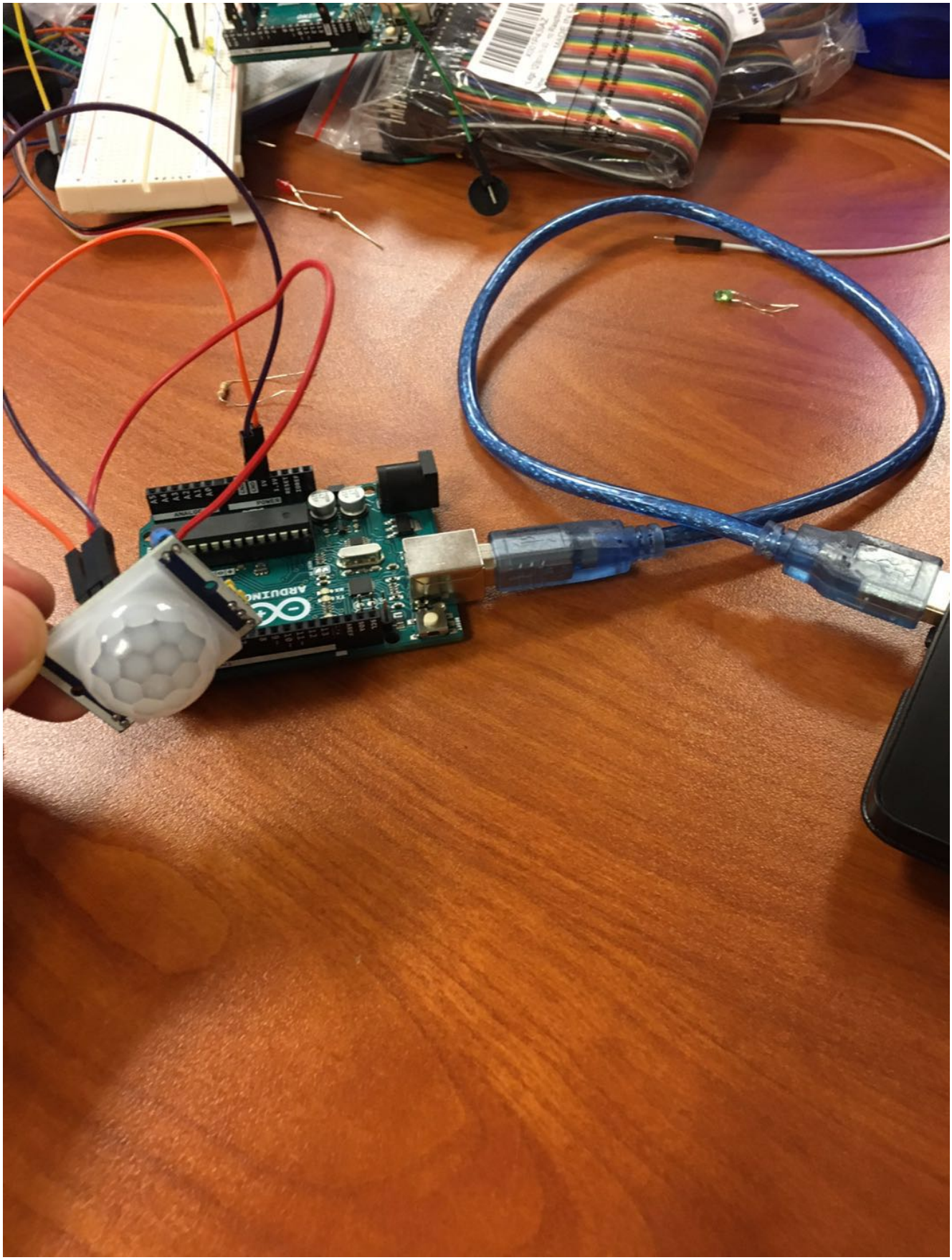
1. Construct circuit board with Arduino and breadboard (for both motion sensor and lie detector)
2. Write Arduino for required functionality
3. Demo

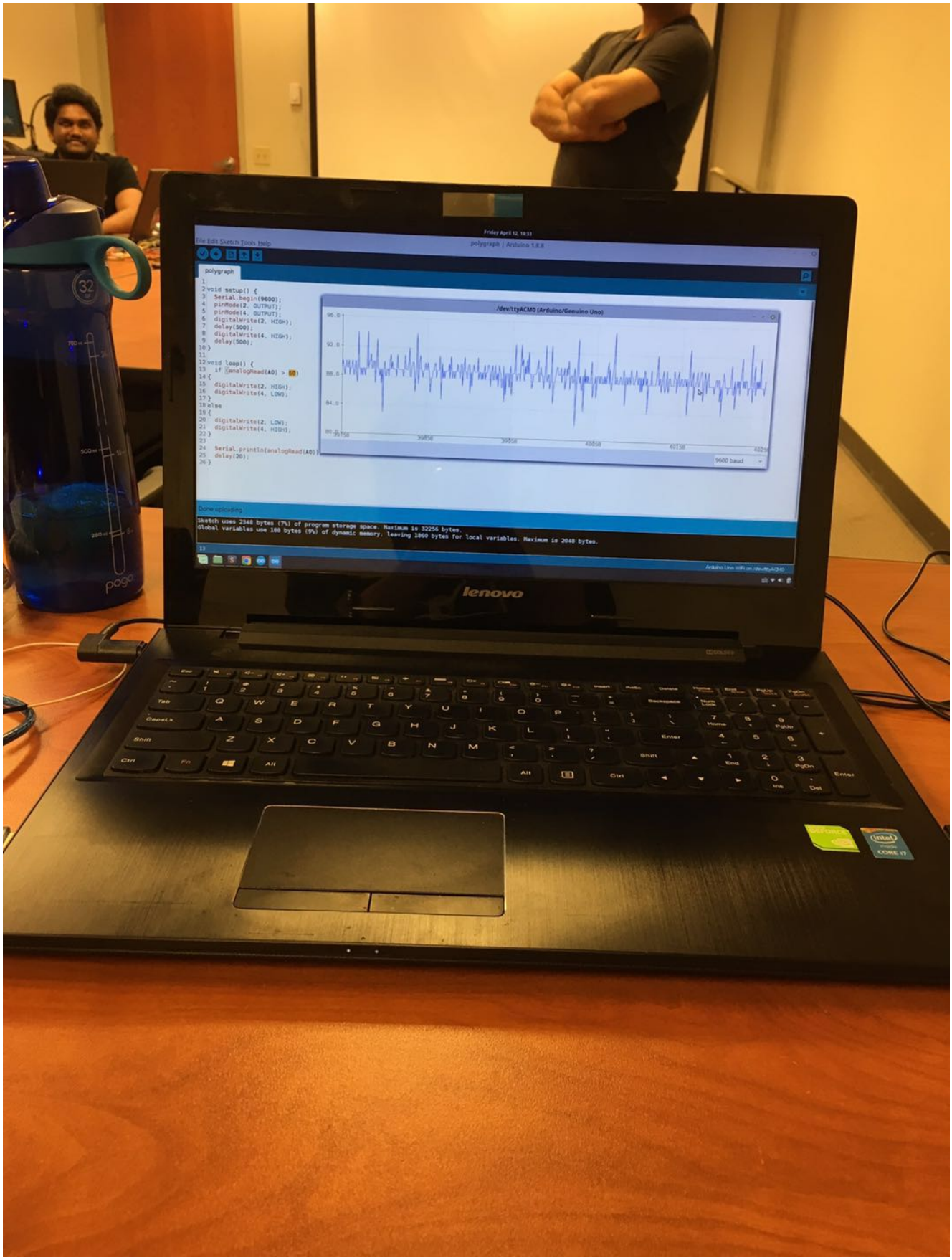
Workflow

1. For motion sensor, we will need to first construct the circuit board and links motion sensor with Arduino. Then we wrote the code to react with motion sensor with Arduino. Last, we will need to test the functionality of the motion sensor with Arduino.

2. For lie detector, we will need to first construct the circuit board and LED light (indicator). Then we wrote the code to react data from analog input (A0) and use this value to interpret if a person is lying. g

Diagram




polygraph
/dev/ttyACM0 (Arduino/Genuino Uno)
9600 baud
Sketch uses 2348 bytes (7%) of program storage space. Maximum is 32256 bytes.
Global variables use 188 bytes (9%) of dynamic memory, leaving 1860 bytes for local variables. Maximum is 2048 bytes.
lenovo

Parameters

None

Evaluation & Discussion

This ICP is the last ICP for Arduino section. This ICP shows us how to use motion sensor and how to construct a simple lie detector with Arduino.

Conclusion

For this ICP, I got to play with motion sensor with Arduino . It is pretty interesting.

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