List of possible subjects for a homework (max 3 pages, if possible with figures)

Computer science

Projects		Applications	Student	Coworker(s)
1.	Arduino + temperature sensor	Principles	Șomcutean Alina-Ioana	Chindea Miruna
		Specific application 1		
2.	Arduino + remote temperature sensor	Principles		
		Specific application 1		
3.	Arduino + temperature and humidity sensor	Principles	Sighiartău Cristina	
		Specific application 1		
4.	Arduino + humidity sensor		Marginean Beatrice	Padurean Victor
5.	Arduino + accelerometer sensor	Principles	Avram Georgiana	
		Specific application 1		
6.	Arduino + smoke sensor	Principles	Bud Bogdan	
		Specific application 1		
7.	Arduino + flammable gas sensor	Principles		
		Specific application 1		
8.	Arduino + alcohol sensor	Principles	Paula Benedec	Malina Zgavardici
		Specific application 1		
9.	Arduino + carbon dioxide sensor	Principles		
		Specific application 1		
10.	Arduino + muscular activity sensors	Principles		
		Specific application 1		
11.	Arduino + hydrogen sensor	Principles		
		Specific application 1		
12.	Arduino + methane sensor	Principles	Indre Bogdan	Sandu Cristian
		Specific application 1		
13.	Arduino + dust sensor	Principles		
		Specific application 1		
14.	Arduino + electric current intensity sensor	Principles		
		Specific application 1		
15.	Arduino + pressure sensor	Principles		
		Specific application 1		
16.	Arduino + bending sensor	Principles		
		Specific application 1		
17.	Arduino + infrared sensors	Principles	Marian Georgiana	
		Specific application 1		
18.	Arduino + proximity sensor	Principles	Buda Ioana Daniela	Christian Flaviu Remus
		Specific application 1		
19.	Arduino + light sensor	Principles	Murariu Ioana-Livia	Potra Bogdan
		Specific application 1		
20.	Arduino + piezo element	Principles	Gherman Codruta	Bobitan Denisa
		Specific application 1		
21.	Arduino + light sensor	Principles		

	(professional)	Specific application 1		
22.	Arduino + UV sensor	Principles		
		Specific application 1		
23.	Arduino + magnetic field sensor	Principles		
		Specific application 1		
24.	Arduino + Hall probe	Principles		
		Specific application 1		
25.	Arduino + Geiger counter	Principles		
		Specific application 1		
26.	Arduino + sound sensor (advanced microphone)	Principles		
		Specific application 1		
27.	Arduino + thermocouple	Principles		
		Specific application 1		
28.	Arduino + 3D printer			
29.	Arduino + voltage measurement		Andriesa Maria	
30.	Arduino + current intensity measurement			
31.	Arduino + resistance measurement			
32.	Arduino + data acquisition (Python, + graphical representation)	Principles		
		Graphic tablet		
		Specific application 2		
33.	Arduino + data acquisition (Visual C#, + graphical representation)	Principles		
		Arduino + C#		
		Specific application 2		
34.	Arduino + data acquisition (LabView, + graphical representation)	Specific application 1		
		Specific application 2		
		Specific application 3		
35.	Arduino + data acquisition (other, + graphical representation)	Principles		
		Specific application 1		
36.	Arduino+ mini-sumo robot			
37.	Arduino + independent car		Rusu Carla Maria	Sabou Cezara, Oancea Eduard
38.	Raspberry PI + sensors	RaspberryPi + climatic sensors applied on agriculture	Andrei Gatea	Bacea Tudor și Vranău Silviu
39.	Arduino + servomotors		Gavrus Danut Alin	Rusu Cristian Alexandru (Aut Eng)

40.	Arduino + Peltier element for temperature control			
41.	Arduino + ethernet			
42.	Electromagnetic Stimulator			
43.	Arduino +load cell			
44.	Arduino + Ultrasonic Sensor		Iordache Ana-Maria	
		Santa's detection	Ionaș Emanuela Renata	Aldea Roxana Ioana
45.	Arduino + low pass filter			
46.	Arduino + high pass filter			
47.	Arduino + ADC (analog to digitral converter)			
48.	Arduino + band pass filter			
49.	Arduino + DAC (digital to analog converter)			
50.	Arduino + Ops Amps. (operational amplifiers)			
51.	Arduino + oscilloscope			
52.	Arduino + DDS (direct digital signal) function generator			
53.	Arduino + Wheatstone bridge (for resistance measurement)			
54.	Arduino + capacitance measurement			
55.	Arduino + inductance measurement			
56.	Electromagtnetic stimulator			
57.	Processing	The program +Arduino		
		Graphics		
		Web cam image acquisition + processing		
		Internet image acquisition +		

		processing		
58.	Arduino + electric skateboard			
59.	Arduino + Bluetooth commanded car		Ceuca Laura	
60.	Arduino + MORSE		Bodea Teofil	
61.	Arduino Nano + parking sensors			
62.	A voice controlled robot		Bogdan Bindea	
63.	Light Traffic Controller		Neagu Lorena	Socaci Radu, Ioana Bozdog
64.	To be completed at student proposal			

Links:
http://www.robofun.ro
http://www.dx.com
http://www.saimonelectronics.ro/
www.banggood.com
http://www.arduino.cc
https://processing.org