Project Name	Description	Useful links
POV Display	Display based on the persistence of vision concept shows a clock has 3 axes for hours, minutes and seconds. The display has a refresh rate of 1 second.	1- Project example https://www.youtube.com/watch?v=-6JnAxTXApw 2- Hall effect sensor http://ram-e-shop.com/oscmax/catalog/product_info.php?products_id=1017
Speaking glove for deaf and dump	Glove used to translate deaf and dump signs into voice and text shown in LCD	1- Project examples https://www.youtube.com/watch?v=_4GybUnRfM8 https://www.youtube.com/watch?v=C1hTnnB1d9E 2- Flex sensor http://store.fut-electronics.com/products/flex-sensor-5-6-cm-detect-bending-motion
Mobile controlled home	The system allows controlling the home by mobile phone application through Bluetooth. Two subsystems are implemented; Safety door that could be opened by the mobile application by entering user name and password, and light on/off that could be controlled also by the mobile phone. The system supports 10 users with different names and password. In case of entering the name of the password 3 times wrong, the system should give alarm.	1- Project example https://www.youtube.com/watch?v=um2uw2KmWF0 2- Bluetooth module http://store.fut-electronics.com/products/serial-bluetooth-module-master-slave 3- Solenoid http://store.fut-electronics.com/products/solenoid-linear-motion-5v 4- Siren Alarm http://store.fut-electronics.com/products/110dba-siren-loud-voice Optional, Chinese car center lock has the siren and the solenoid and could be less than 100 L.E. you can find it at any car accessories shop.

| Mines detector robot | The robot should give an alarm in case of mine detected and stop moving. The robot should move randomly and avoid collision. | 1- Project example
https://www.youtube.com/watch?v=A3oCc6FiM58

2- Ultrasonic sensor
http://store.fut-electronics.com/collections/object-detection/products/ultrasonic-sensor-range-finder

http://store.fut-electronics.com/collections/object-detection/products/ultrasonic-sensor-range-finder

3- Metal detector
http://store.fut-electronics.com/collections/object-detection/products/metal-detector-sensor

4- Robot
http://store.fut-electronics.com/products/4-wd-robot-acrylic-with-4-motors-and-4-wheels |

Never stop trying
Never stop believing
Never give up

Best regards.
Ahmed Assaf