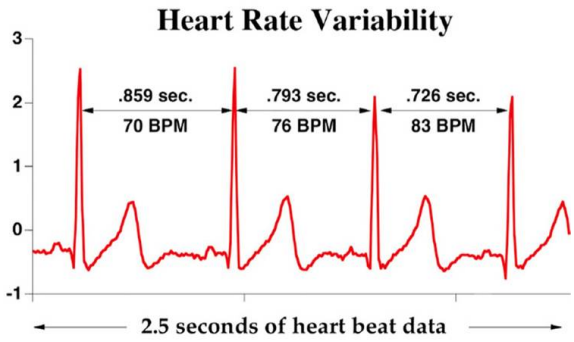
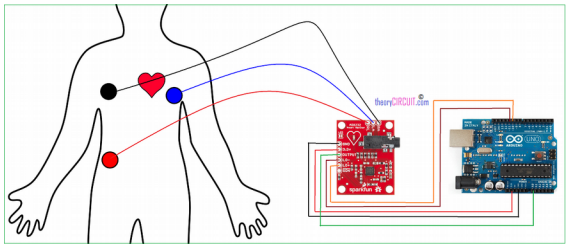
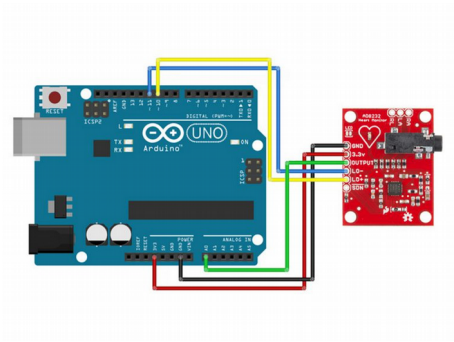
Medical Electronics
Projects 2018/19

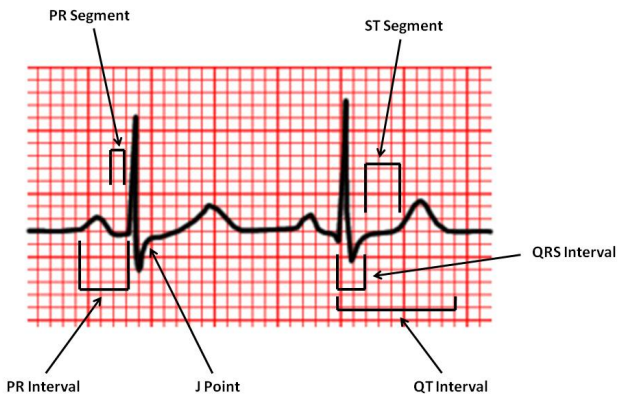
1. ECG signal registration, detection of HR and determination of HRV using AD8232 sensor



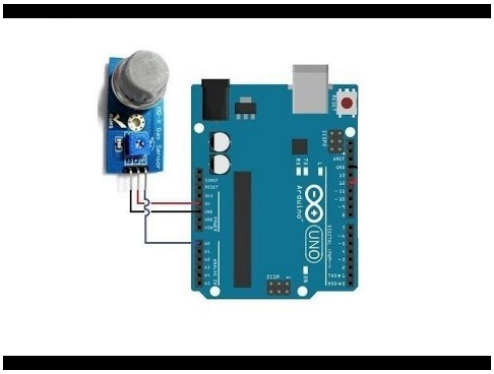


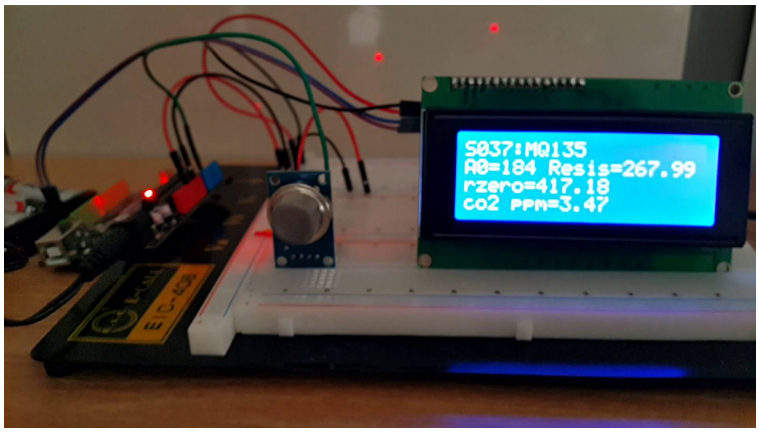
2. ECG signal registration and determination of averaged PR and QT intervals



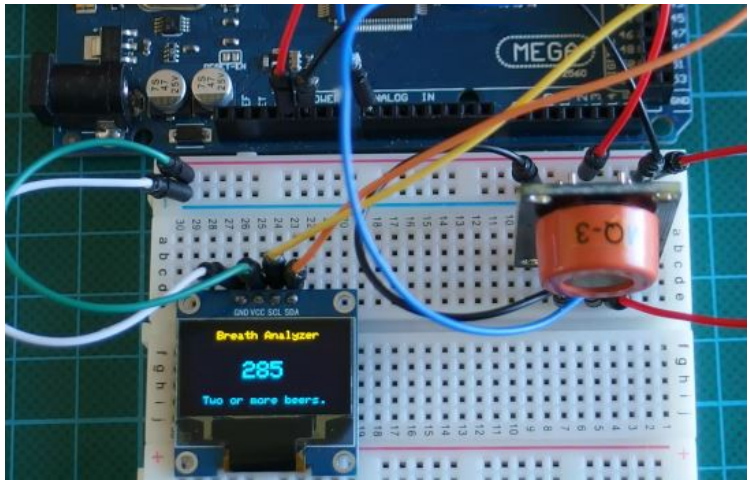


3. Air quality tester with MQ-135 sensor and LCD display. Includes design of cover case design for 3D printing

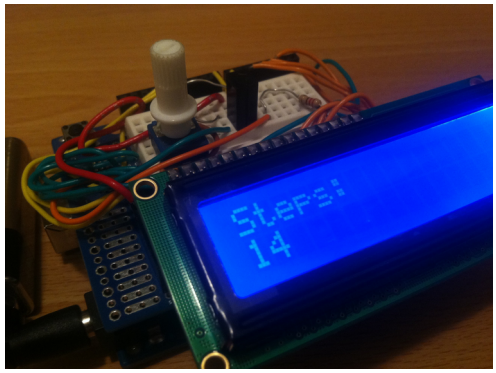


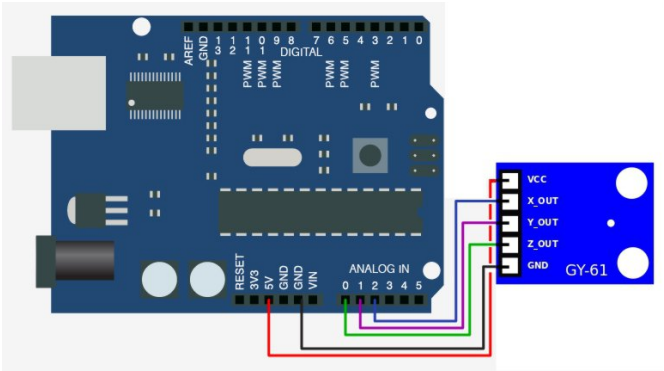


4. Breathalyser with MQ-3 sensor and LCD or 7-segment display. Includes design of cover case design for 3D printing

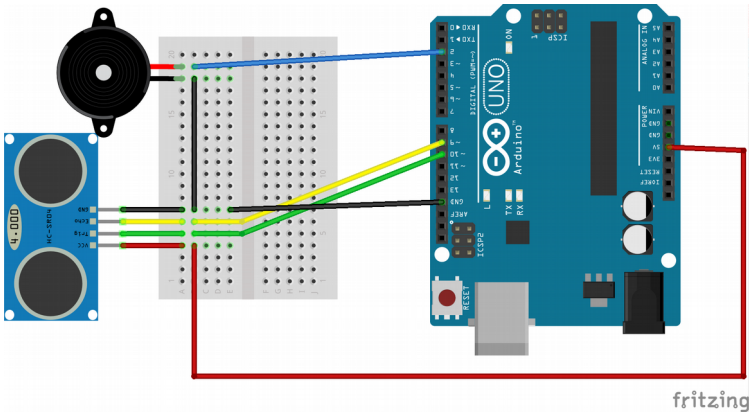


5. Pedometer with LCD display or 7-segment display

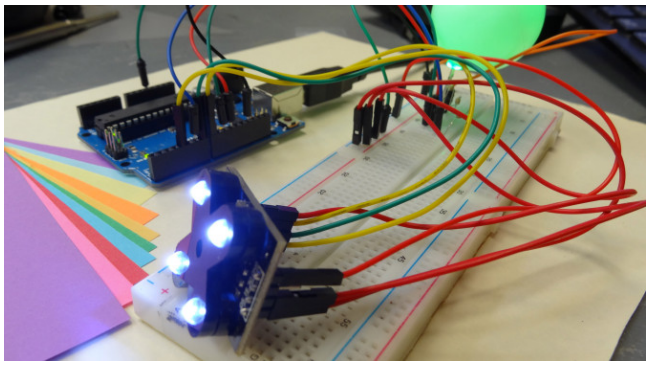




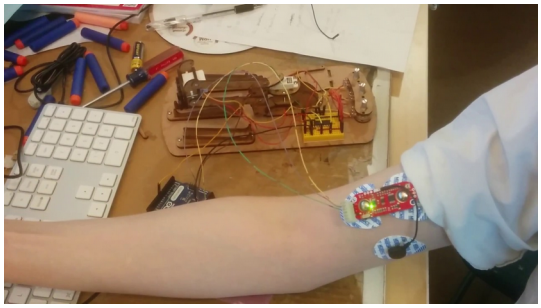
6. Obstacle detector with HC-SR04 sensor and buzzer. Includes design of cover case design for 3D printing

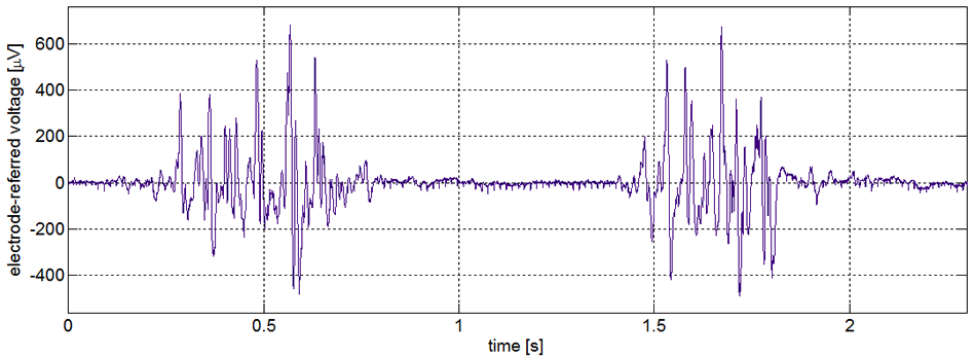


7. System for color recognition with TCS3200 and LCD display. Includes design of cover case design for 3D printing.

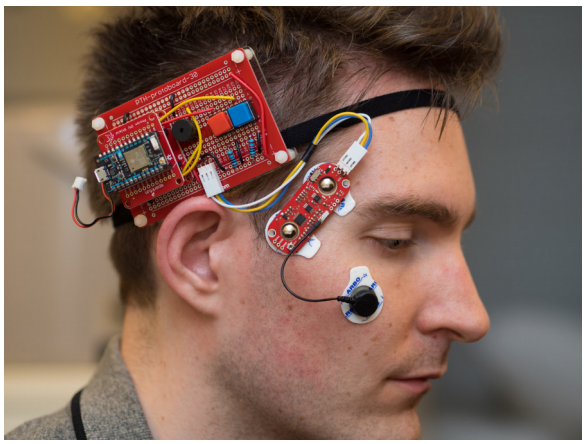


8. Analysis of arm muscles activity using MyoWare sensor.

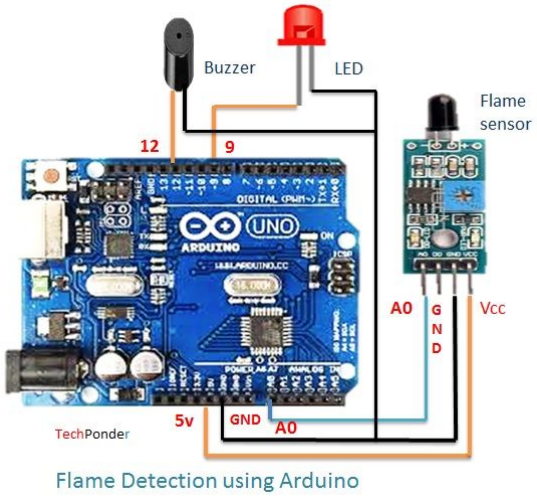




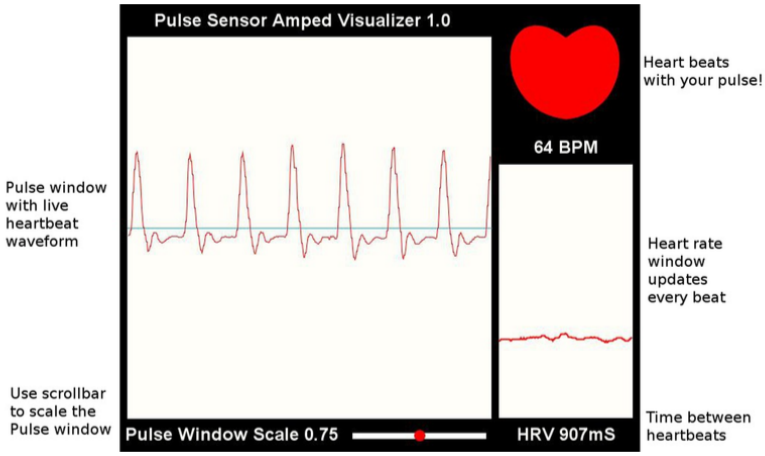
9. Analysis of face muscles for face expression detection – circuit with MyoWare sensor



10. Fire detector with buzzer and LED. Includes design of cover case design for 3D printing



11. Pulse meter and HRV estimation with Amped sensor and LCD or 7-segment display. Includes design of finger clip for Amped sensor.



12. Heart rate and oxygen saturation estimation from Amped sensor. Includes LCD display.