



UBORA: Euro-African Open Biomedical Engineering
e-Platform for Innovation through Education

Resuscitation device for Neonates

Group 8

Analysing the needs

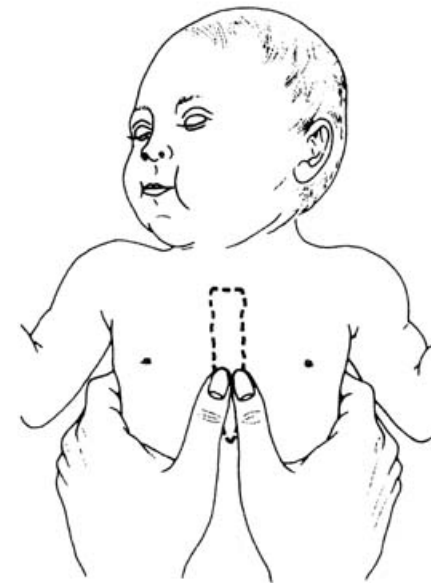


- 10% of the deliveries need resuscitation
- Resuscitation requires medical training
- Medical personal in rural areas have no training

The existing procedure



- Series of compressions coordinated with ambu bag
- Three rapid and precise compressions

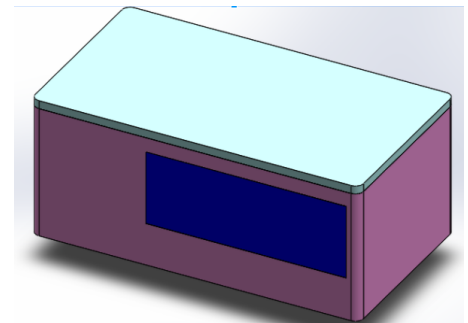
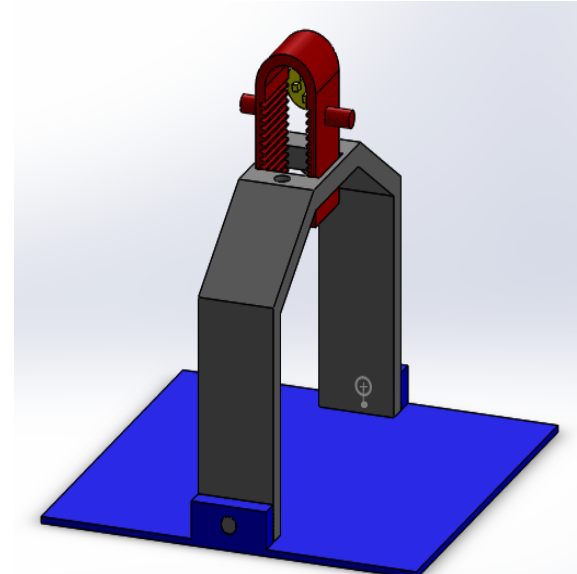
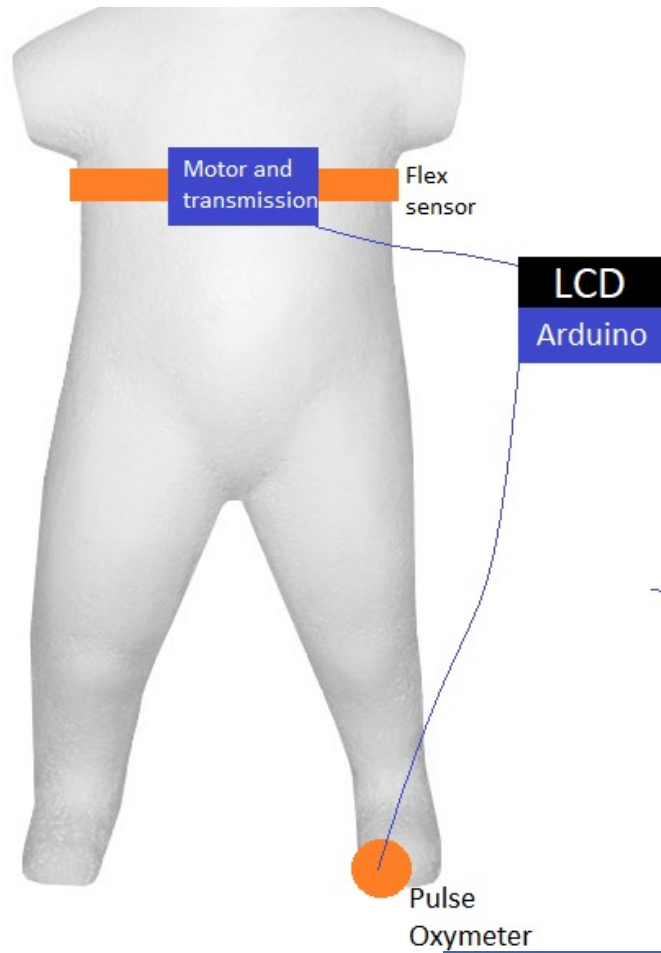


Proposed solution

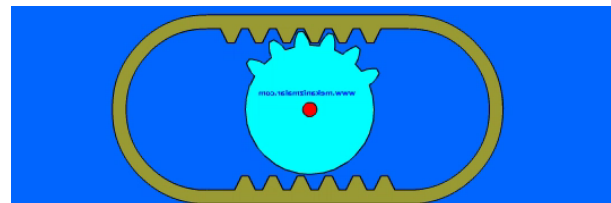
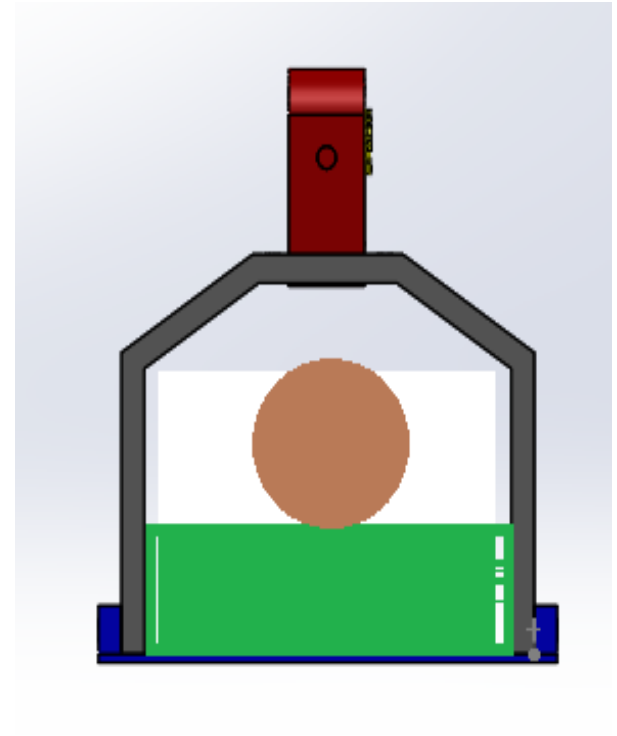
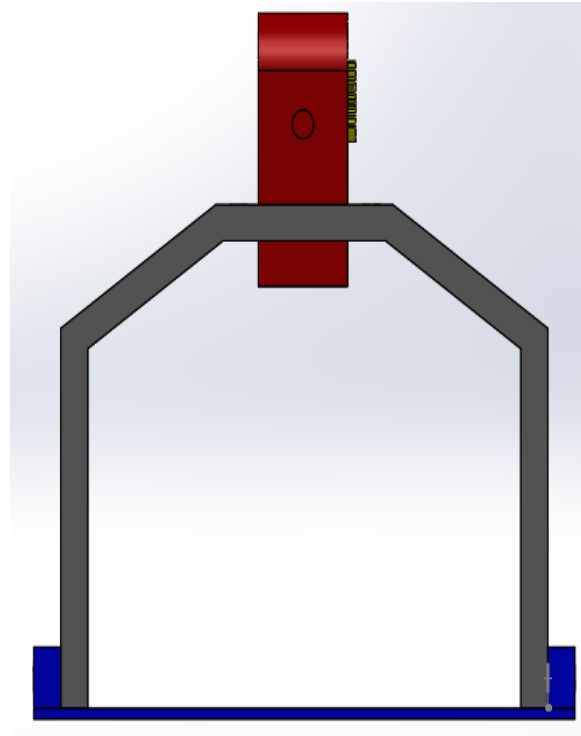


- Automation of the chest compressions
- Coordination with ambu bag
- Monitoring of heart rate and respiratory rate

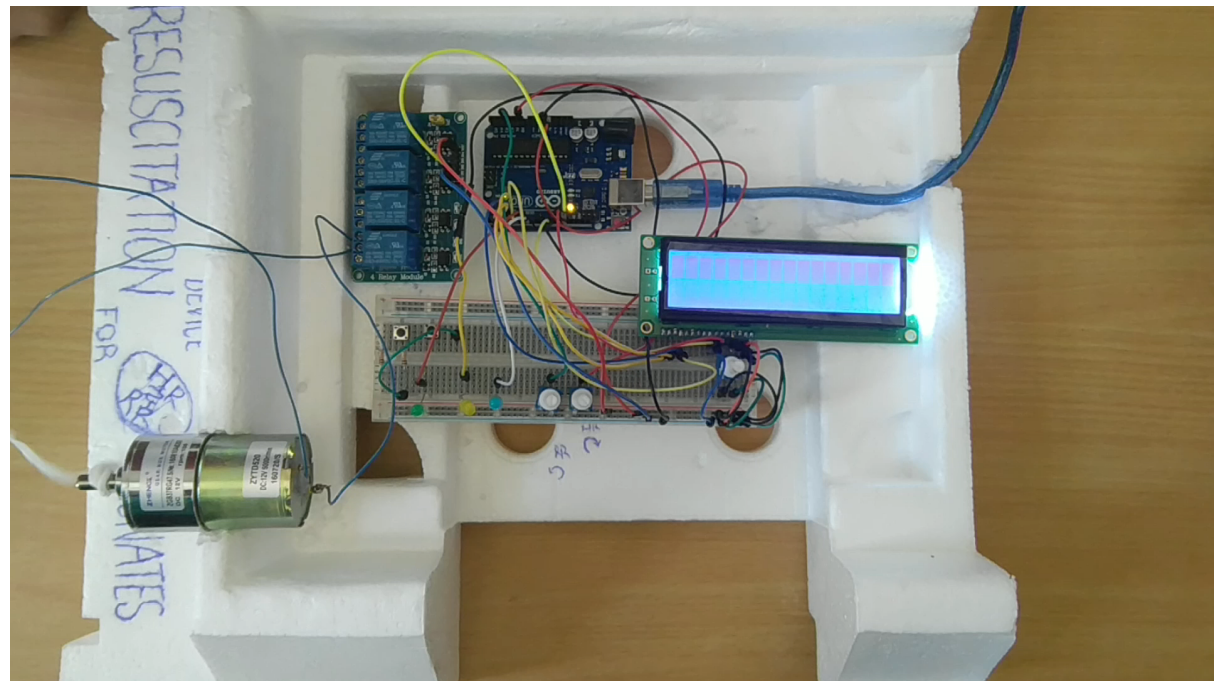
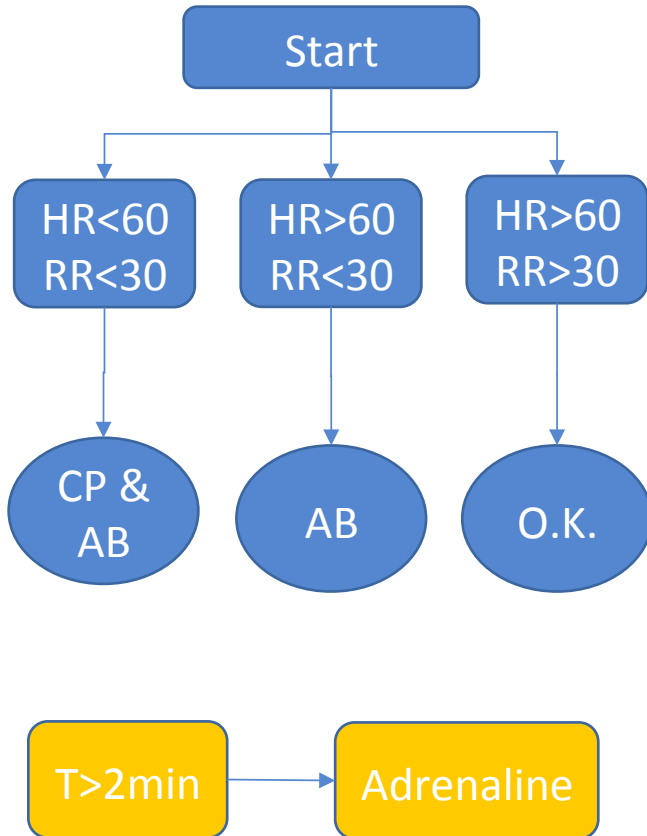
Concept Design



Chest compression mechanism



Controller and interface



Thank you. Any questions?



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