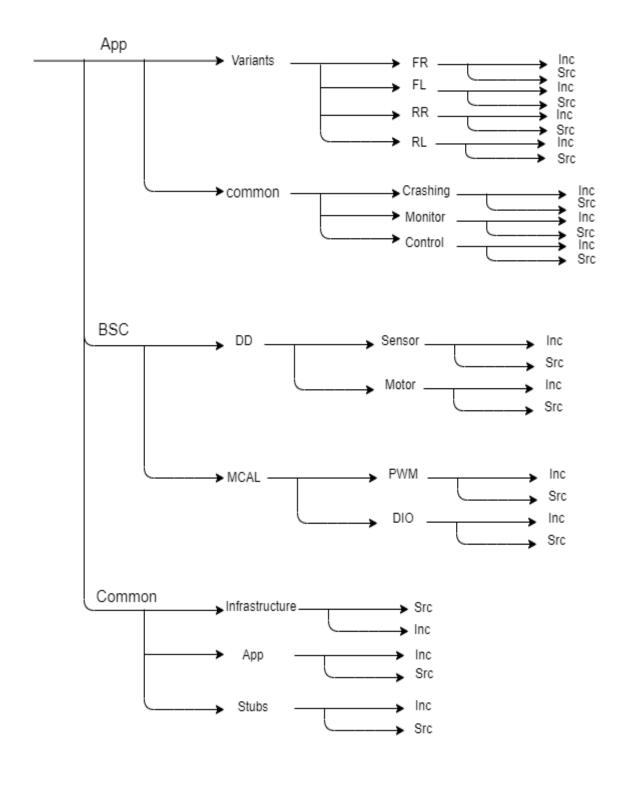
Crashing Avoidance robot with support of Motor multi variants.

(Design)

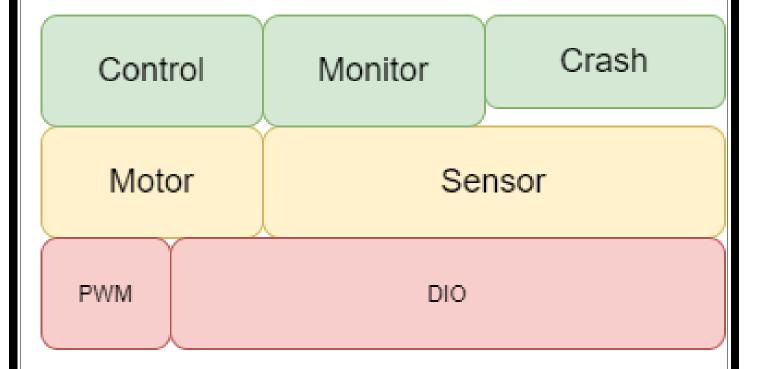
By/ Ahmed Maged

1 – Folder Structure



2 – Static Design

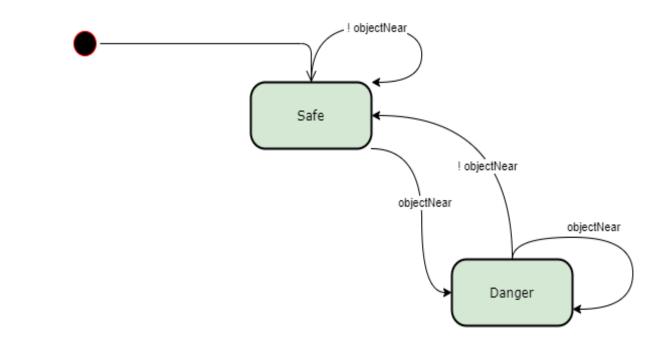
Layered Architecture.

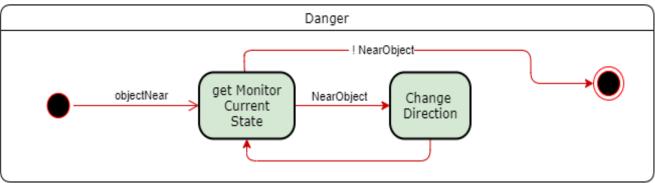


3 – Dynamic Design

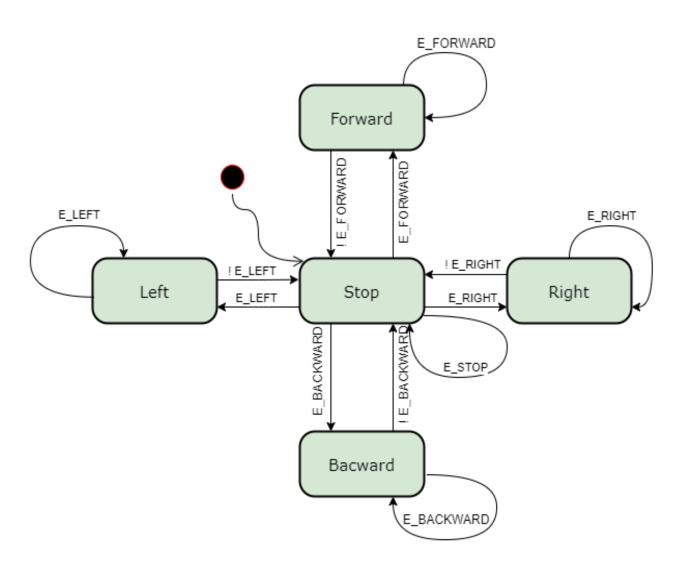
A – Crashing module State machine

Crashing



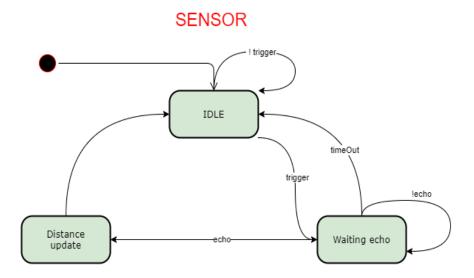


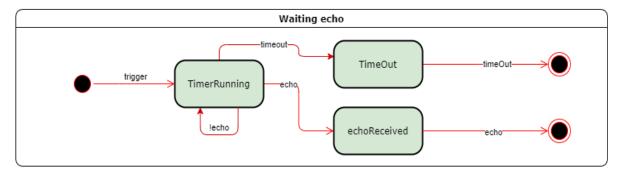
B - Control module State machine



C – Monitor Stack State machines

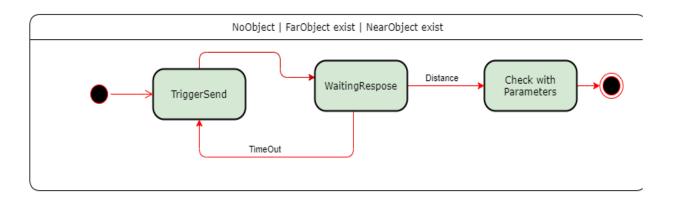
1: Sensor module:





2: Monitor state machine

Distance < LOWER_LIMIT NoObject Distance < L_L L_L < Distance > H_L Distance > H_L NearObject exist Distance > H_L NearObject exist Distance > H_L



D - Sequence diagram to show the difference between control events when the object is exist and when not.

