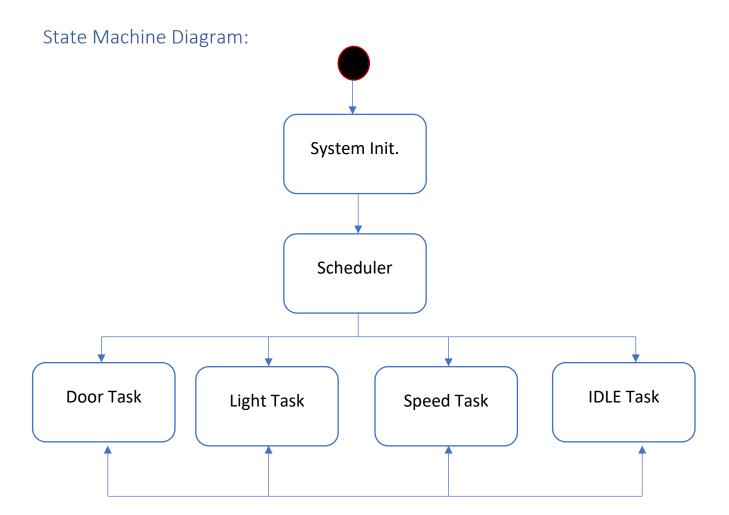
AUTOMOTIVE DOOR CONTROL SYSTEM DESIGN

Dynamic Design

Shiry Ezzat Hakim

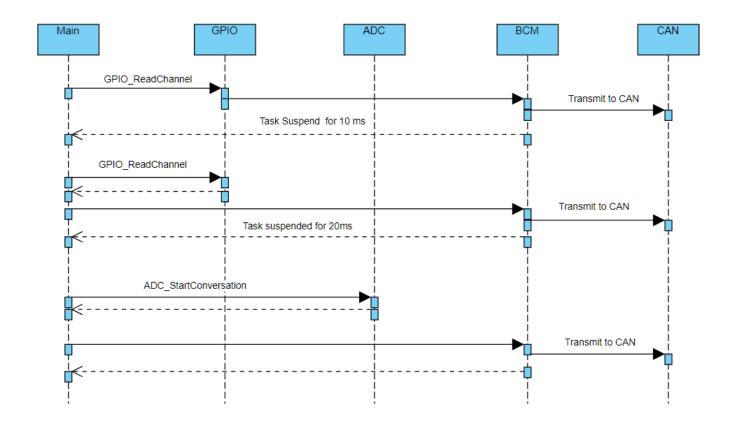


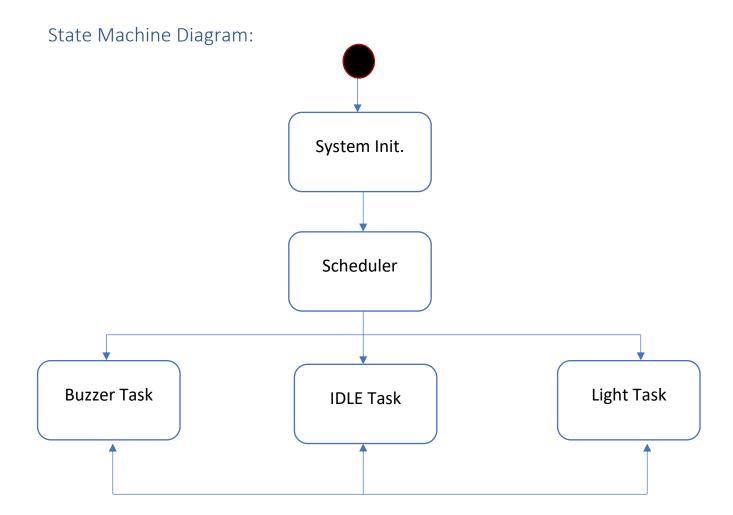
CPU Load:

- Hyper period = 20 ms
- Estimate each task has execution time of 1.5 ms

CPU Load =
$$\frac{1.5}{5} + \frac{1.5}{10} + \frac{1.5}{20} = 52.5\%$$

Sequential Diagram:





CPU Load:

- Hyper period = 5 ms
- Estimate each task has execution time of 1.5 ms

CPU Load =
$$\frac{1.5}{5} + \frac{1.5}{5} = 60\%$$

Sequential Diagram:

