Inputs: 10 pins

Passenger side: One Switch with two signals (up and down)

Driver Side: One Switch with two signals (Up and down)

Driver Side: One touch switch with two signals (Up and Down)

Driver Side: Lock switch (single signal)

Stall Detection Sensor Simulated by switch (one signal)

Two Limit Switches for each motor

Outputs: 2 pins

2 PWMs

Project Tasks:

1. Coding (Project Initiation {Driver Library, FreeRTOS}) -> Flashing LED
2. Coding FreeRTOS (Application)
3. Power Point
4. Video Recording

1 ms scheduler: read inputs every 1 ms

10 ms scheduler: update output (2 PWMs)