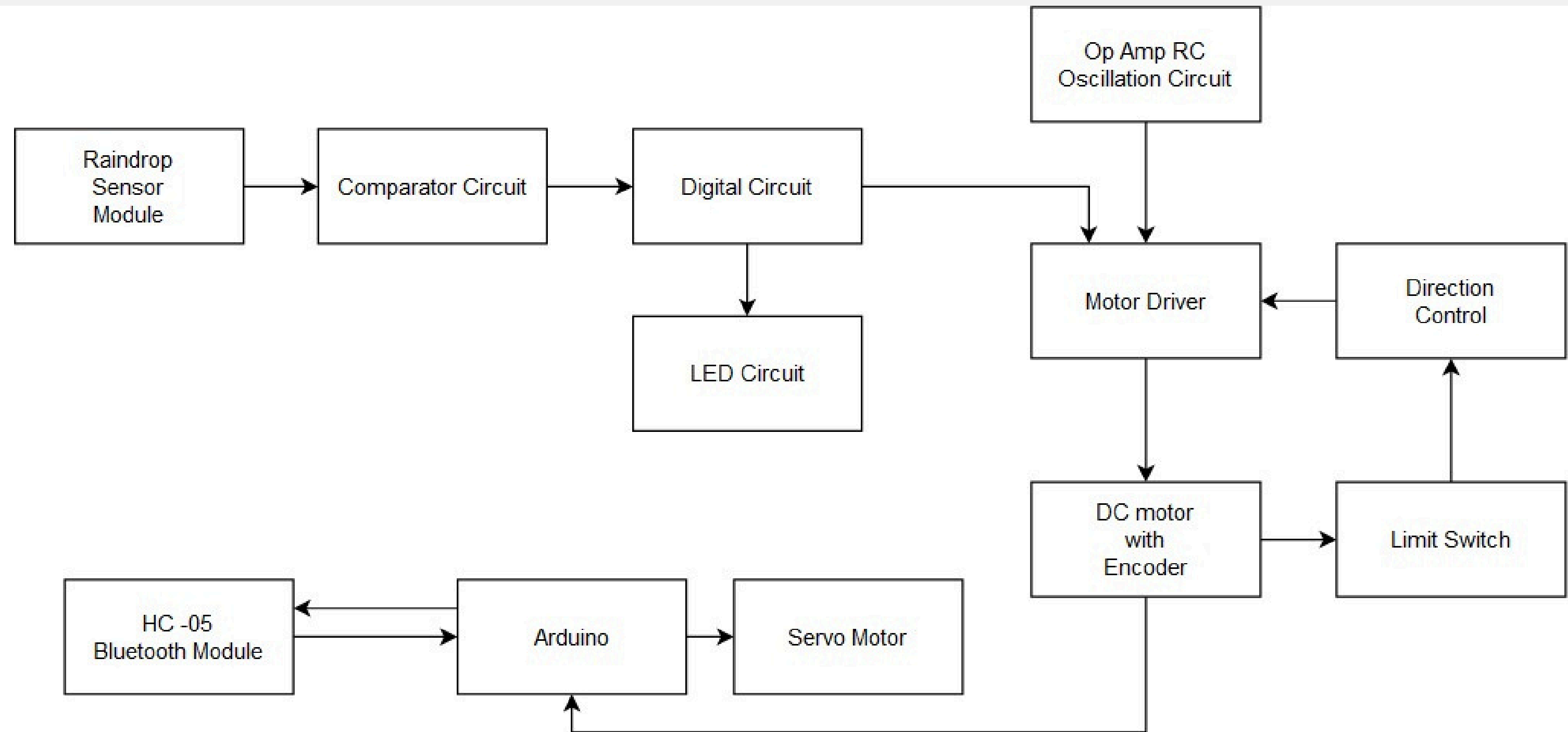




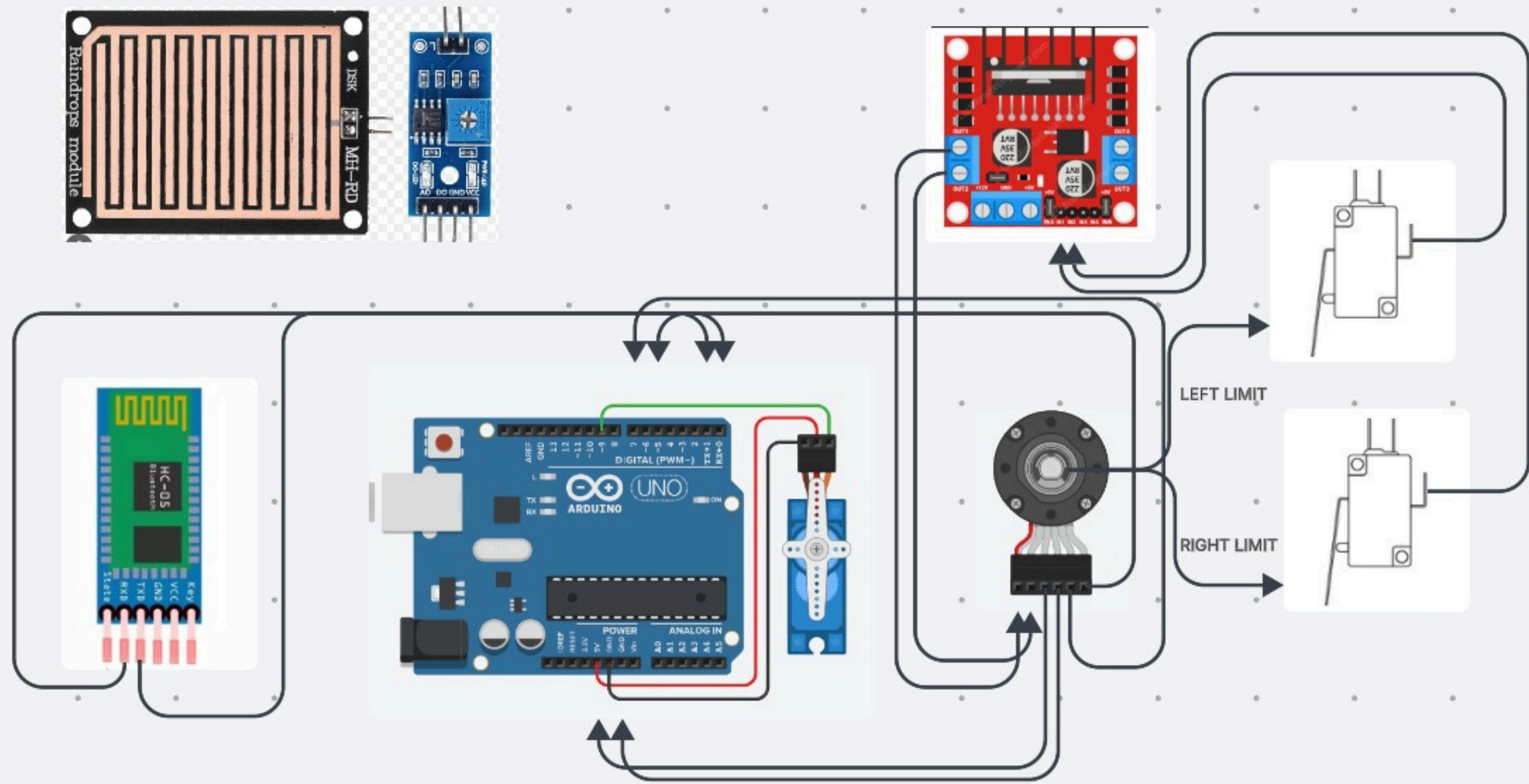
KRITI'25

HostelID-90

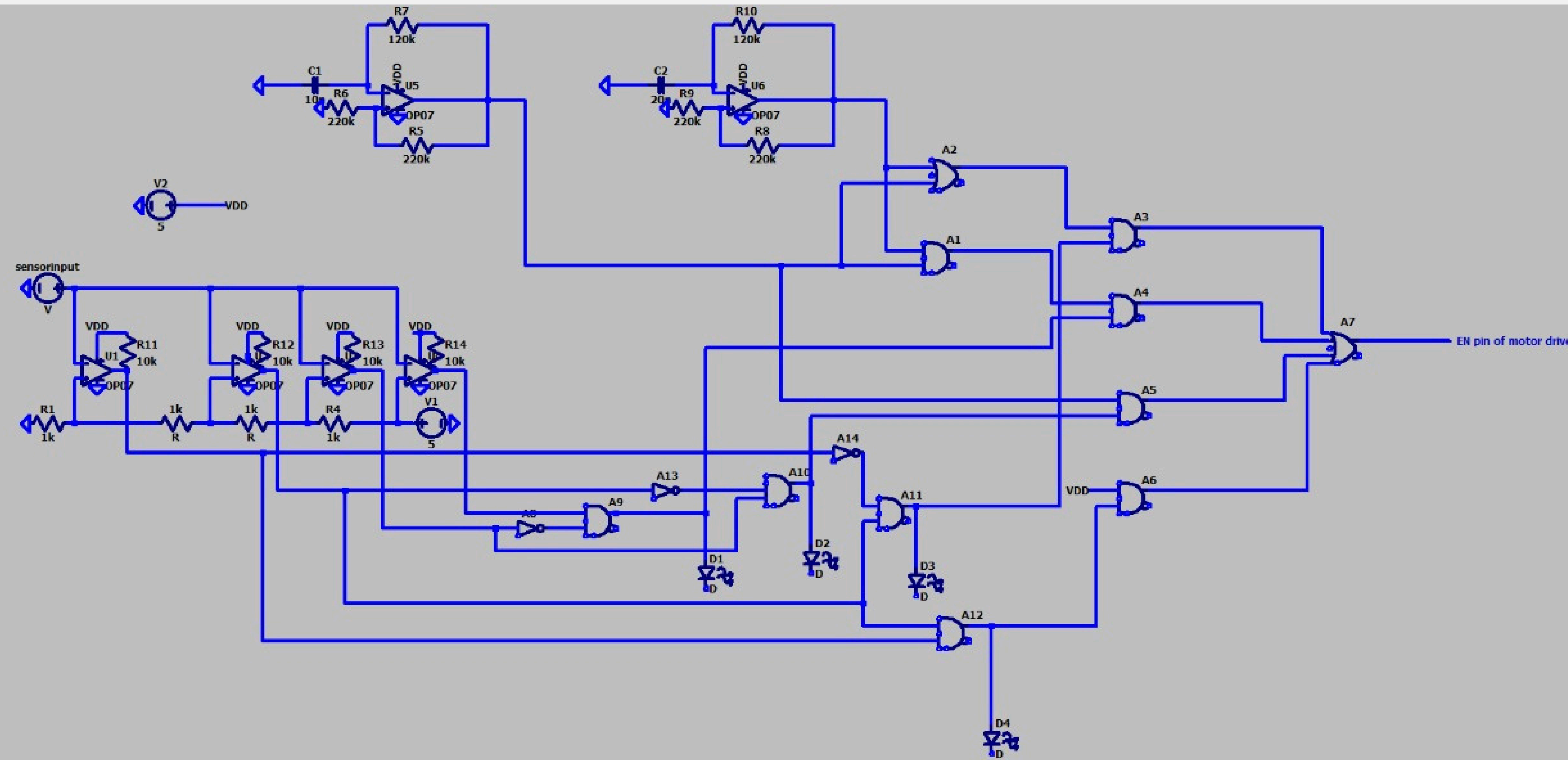
FLOWCHART



CIRCUIT SCHEMATIC



CIRCUIT

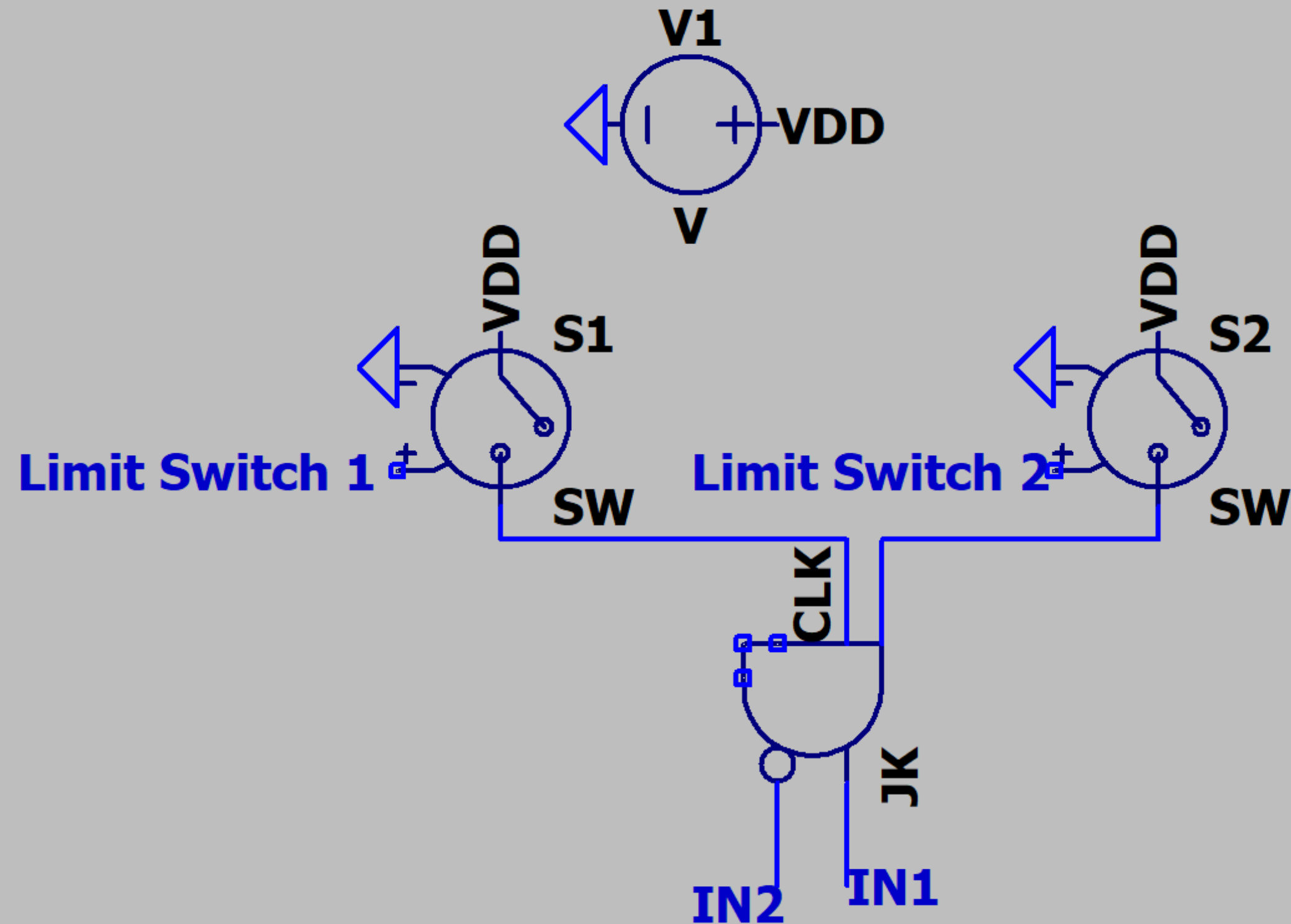


Process



First we created a pwm wave of 50% duty cycle with op amp -rc oscillator, of 2 diff frequencies and the used and and “or” to generate pwm of 25% and 75% duty cycle, used comparator circuit to to differentiate 4 speed levels then used a combination of these led inputs and pwm signals to produce final pwm to enable pin of motor driver, the 0-180 direction control of dc motor is done using limit switch-jk fliflop. the speed of motor is read thrpugh the encoder by arduino which correspondingly changes the direction of needle. raindrop sensor module and arduino output of wireless breaking is connected through transistor circuit.

WIPER MECHANISM



WIRELESS BRAKING

