**About the project WCS :**

**## Description**

\* This Project is an \_Wiper control (WCS) system, a wiper control system for an automotive wiper controls the operational speed of a wiper in accordance with rain conditions. It useful in the automotive unit the main purpose of the system is to clean the windscreen sufficiently to provide suitable visibility at all times.

**## Identifying features**

\* When the button is pressed once the car will start (\_Ignition key postion at ACC\_)

\* When the button is pressed again the wiper will off (\_Wiper Off\_)

\* When the button is pressed thrice the car will stop (\_Ignition key position at Lock\_)

## state of art

\* The main focus point is seeing the wiper control of the car.

\* And also seeing the seep of the wiper system in the car

\* Now this two features are explained in these project.

## 5W's & 1H and S.W.O.T analysis is in the below table

# | 5W's & 1H |

\*\_What\_

-- wiper control system (WCS)

\*\_Where\_

--Inside and out side the car

\*\_When\_

--When the weather condition is bad (like in rain and snow) the wiper is activate and clean the car window

\*\_Who\_

--Who is driving or controlling the car

\*\_How\_

--By using STM like by multiple pushes on a button

# | S.W.O.T ANALYSIS |

\_Strengths\_

\* No human interaction with car

\* Manages all commands with one key automatically

\* encryption in data

\_Weaknesses\_

\* Unable to monitor status of car

\* Range is limited

\* Wait for certain time after every command to press new command

\_Opportunities\_

\* The Scope of this system is huge in car control

\* can be used where the car need these command

\* Less cost

\_Threats\_

\* When new command is given without completing the current command it will not take current command

**Requirements :**

**High Level Requirements**

| ID | High Level Requirements |

| -------- | -------------- |

| HLR1 | It will start the car|

| HLR2 | It will start the wiper |

| HLR3 | It shall seen speed of the wiper work |

| HLR4 | It will stop the wiper |

| HLR5 | It will stop the car |

**Low Level Requirements**

| ID | Low Level Requirements for HLR1|

| ----- | ----- |

| LLR1.1 | If the User button is pressed Once, the red LED will be on |

| ID | Low Level Requirements for HLR2|

| ----- | ----- |

| LLR2.1 | If the User Button is pressed TWICE, Blue, Green, Orange LED's come ON at a time with set of frequency |

| ID | Low Level Requirements for HLR3|

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| LLR3.1 | If the User Button is pressed THIRD time, ON All LED's in CLOCKWISE manner an speed will increase |

| ID | Low Level Requirements for HLR4|

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| LLR4.1 | If the User Button is pressed FOURTH time , all LED's on anticlock manner |

| ID | Low Level Requirements for HLR5|

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| LLR5.1 | If the User Button is pressed FIVTH times, the red LED will be off |