**Seat-Belt Status**

**LED1**

**If(**Message is received LED is OFF**)**

**else(**LED is ON**)**

**Read\_CAN()**

**Message is Received or Not and**

**Seatbelt is Buckled or Not**

**Seat-Belt Status**

RX

**Reviewed by: K. Mustaffa Sir, Vinayak Desai, G. Ravi Chandran, V. Vignesh Kumar.**

**Figure: Functional Block Diagram of Occupant Classification System**

CAN\_filter()

CAN\_mask()

Baudrate()

CAN\_init()()

System\_init()

**Occupant Status**

**LED2**

**Switch**

**Occupant Status**

**Passenger Airbag Status**

**Write\_CAN()**

**If ( S3== 0 & S2= =0)** : LED is ON

**else If ( S3== 0 & S2= =1)** : LED is OFF

**else If ( S3== 1 & S2= =0)** : LED blink every 5 sec

**else If( S3== 1 & S2= =1)** : LED blink every 10 sec

**Switch S3**

**Switch S2**

**Checking Passenger Occupant Status for different modes**

**Checking Airbag is Enable/Disable**

**System\_init()**

CAN\_init()()

Baudrate()

VCC

GND

TX

RX

VCC

GND

TX

**CAN Transceiver**

Delay()

**CAN**

**TRANSCEIVER**