

P = Power

D = Dead man switch

I = Ignition button

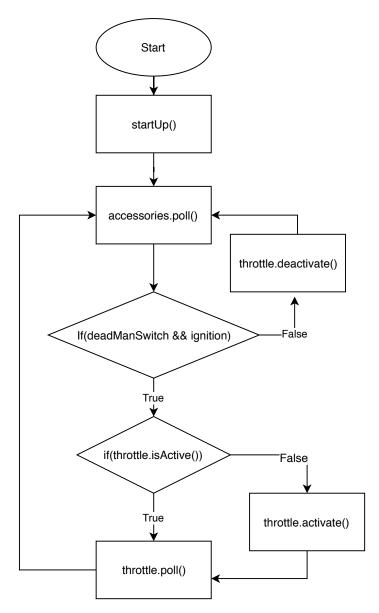
Binary Logic: and: .

or: + not: '

Off state: All vehicle power is shut off

Accessories State: All vehicle accessories working, the motor is in a deactivate state, the car will not move

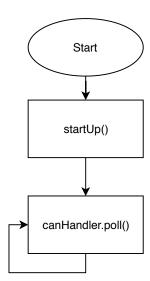
Active State: Accessories state plus throttle active and responsive to drivers input



Poll(): Checks for an input update, and handles it accordingly (CAN message)
* Not using interrupts to avoid any blocking code to increase safety,
and vehicle responsiveness

throttle.poll(): Creates and sends a CAN message with the voltage from the throttle potentiometer. This message is then handled by the motor controller at the rear of the vehicle

Motor controller flow diagram



 $can Handler.poll(): Handles \ all \ can \ messages \ for \ accessories \ and \ throttle, \ sets \ pwm \ for \ motor \ depending on \ throttle \ message \ data$

