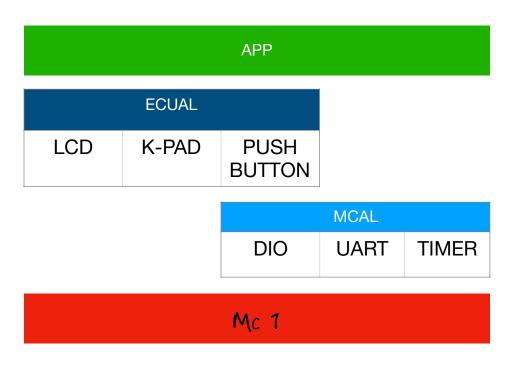
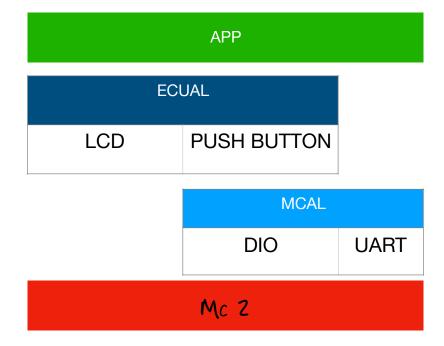
Vehicle State Estimator

Static Architecture:





DIO_init(void);			TIMER_init(void);		LCD_init(void);	
Description	Function to initialize the DIO driver.	Description	Function to initialize the TIMER driver.	Description	Function to initialize the LCD driver.	
I/P	_	I/P	_	I/P	_	
O/P	_	O/P	_	O/P	_	
I/O	_	I/O	_	I/O	_	
Return	enum	Return	enum	Return	enum	
	DIO_write(enum,uint8);	TII	MER_delay(uint8, double);	LC	CD_sendCommand(uint8);	
Description	Function to set or clear a certain bit in any register.	Description	Function to configure timer control registers.	Description	Function to send a command to the LCD.	
I/P	enum and Unsigned character	I/P	Unsigned character and double	I/P	Unsigned character	
O/P	_	O/P	_	O/P	_	
I/O	_	I/O	_	I/O	_	
Return	enum	Return	enum	Return	enum	
1	DIO_read(enum,uint8 *);		KEYPAD_Key(uint8 *);	LCD	_displayString(const char *);	
Description	Function to check if a specific bit is cleared or set in any register and return the value.	Description	Function to detect the pressed keypad key.	Description	Function to display a string.	
I/P	enum	I/P	_	I/P	A pointer to character	
O/P	A pointer to character	O/P	A pointer to character	O/P	_	
I/O	_	I/O	-	I/O	-	
Return	enum	Return	enum	Return	enum	

UART_init(void);

Description	Function to initialize the UART driver.
I/P	_
O/P	_
I/O	_
Return	enum

UART_sendByte(const uint8);

Description	Function to send data	by UART.
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I/P	Unsigned character
O/P	_
I/O	-
Return	enum

UART_recieveByte(uint8 *);

Description	Function to receive data from UART.
I/P	_
O/P	A pointer to character
I/O	_
Return	enum

PBUTTON_getStatus(enum,uint8 *);

Description	Function to check if the SWITCH is pressed or not.
I/P	enum
O/P	A pointer to character
I/O	_
Return	enum