Oregon State University
Robotics Club
groups.engr.oregonstate.edu/osurc

Mars Rover
SRRC 2015
Rover Firmware Diagram

SharedFunctions.h
Contains functions shared by BBB and specific dirvers
Editable by:
Nick McComb

string.h

usart_driver.h

avr_compiler.h

avr/io.h

avr/interrupt.h

util/delay.h

XMegaLib.h
xMega overhead
Editable by:
Nick McComb

Globals:
USART_data_t USART_PC_Data

Drive.h
Driver Header
Editable By:
Cameron Stuart
Nick McComb

Globals:
USART_data_t SABER_UNO
USART_data_t SABER_DOS
USART_data_t SABER_TRES
USART_data_t ARM_USART
USART_data_t GIMBAL_USART

Drive.cpp
Driver Driver
Editable By:
Cameron Stuart
Nick McComb

Arm.h
Arm Header
Editable by:
Brian Sia
Nick Ames

Globals:
[none]

Arm.cpp
Arm Driver
Editable by:
Brian Sia
Nick Ames

Radio.h
Radio header
Editible by: TBD

Globals:
[none]

Radio.cpp
Radio driver
Editible by: TBD

BrainBoard.h
Brainboard Header
Editable by:
Nick McComb

Globals:
char recieveChar
XMegaStates CurrentState

BasicBrainBoard.cpp
Main Interface File
Editible by:
Nick McComb

Debug.h
Brainboard Header
Editable by:
All

Globals:
[none]

Debug.cpp
Main Interface File
Editable by:
All

ComputerInterface.h
Interface Header
Editable by:
Nick McComb

Globals:
[none]

ComputerInterface.cpp
Computer Interface
Editiable by:
Nick McComb

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