Lesson 7: Case Study ; CAN on RPi HAT (Assignment 7)

Command - sudo apt install wiringpi

A screenshot of a computer

Description automatically generated

Command - git clone [git@github.com:WiringPi/WiriingPi](mailto:git@github.com:WiringPi/WiriingPi)

A computer screen shot of a computer program

Description automatically generated

SourceCode - build\_sh (wiringpi)

A screenshot of a computer

Description automatically generated

SourceCode - Makefile (wiringPi)

A screenshot of a computer

Description automatically generated

Output - build\_sh (wiringpi)

A screen shot of a computer

Description automatically generated

Command - gpio -v

A screenshot of a computer

Description automatically generated

Command - gpio write 21 1

A screenshot of a computer

Description automatically generated

Command - sudo strace -o /tmp/gpio.trace gpio write 21 1

A screenshot of a computer

Description automatically generated

Command - ls /usr/local/include

A screenshot of a computer

Description automatically generated

SourceCode - wiringpi\_h A screenshot of a computer

Description automatically generated

SourceCode - gpio-test\_c

A computer screen shot of a black screen

Description automatically generated

Output - gpio-test

A screenshot of a computer screen

Description automatically generated

SourceCode - /boot/config\_txt

A screenshot of a computer

Description automatically generated

Output - dmesg | grep spi (before making hardware connections)

A screenshot of a computer

Description automatically generated

Output - dmesg | grep spi (after making connection)

A screenshot of a computer

Description automatically generated

Command - ifconfig -a

A screenshot of a computer screen

Description automatically generated

Command - ip link set can0 up type can bitrate 500000

A computer screen with text on it

Description automatically generated

Command - sudo apt install can-utils

A screenshot of a computer screen

Description automatically generated

Command - dpkg -L can-utils

A screenshot of a computer

Description automatically generated

SourceCode - can\_receive\_c

A computer screen shot of a black screen

Description automatically generated

Output - can\_receive

A computer screen with white text

Description automatically generated

SourceCode - can\_send\_c

A computer screen with text and images

Description automatically generated

Output - can\_send

A screenshot of a computer

Description automatically generated