Racing Car Simulator

Wheel, Pedals & Gears

Logitech G25 Racing Wheel

Speakers

Logitech Z-5500 Digital 5:1 Surround

Display

19" BenQ LCD 1280 x 1024

PC

Bits and pieces...Technika Optical mouse, KeySonic ACK-3400U Ultra-compact Mini Keyboard, Logic3 four port USB hub.

Instrument Cluster

Porsche 996

Handbrake

Porsche Cayenne

Seat

Corbeau Forza Sport

Belts

3 point RJS Racing Equipment Harness

Gear indicator

7 segment display and led Rev counter

http://nlp.fi.muni.cz/~xkadlec/lfs/gi/

Instruments

Milford Instruments Serial Servo-8 Driver Board (1-904)

http://www.milinst.com/animatronics/animatronics.htm#servodrivers

6 servos installed in the cluster. Currently using speed, revs, fuel and the oil pressure gauge for the boost. Voltage and Temp not driven.

Warning Indicators

Velleman USB Experimenters Board VM110

http://www.quasarelectronics.com/vk8055.htm

Used to switch leds for ignition, turn x 2, main beam and a change gear.

LCD Display

Mirrorbow Electronics USB Display 4x20

http://www.mirrorbow.com/usbdisplay.htm

Work in progress, displays car info, mileage on different screens selected with a pushbutton in the instrument cluster.

Switrches

BU0836A Ultra Precision Joystick Controller

http://www.leobodnar.com/products/BU0836A/

Horn and Starter large push buttons, traction control and pit lane speed limiter small push buttons, turn and main beam momentary toggle switches. The instrument lights are controlled with another toggle switch. The handbrake has a 1k ohm pot to detect position.

Software

AutoHotKey used to start the following apps and map the indicator switch to a key press.

http://www.autohotkey.com/

Visual Basic 6 Home developed app to drive all the hardware with Outgauge.

Live for Speed LFS S2, version Z