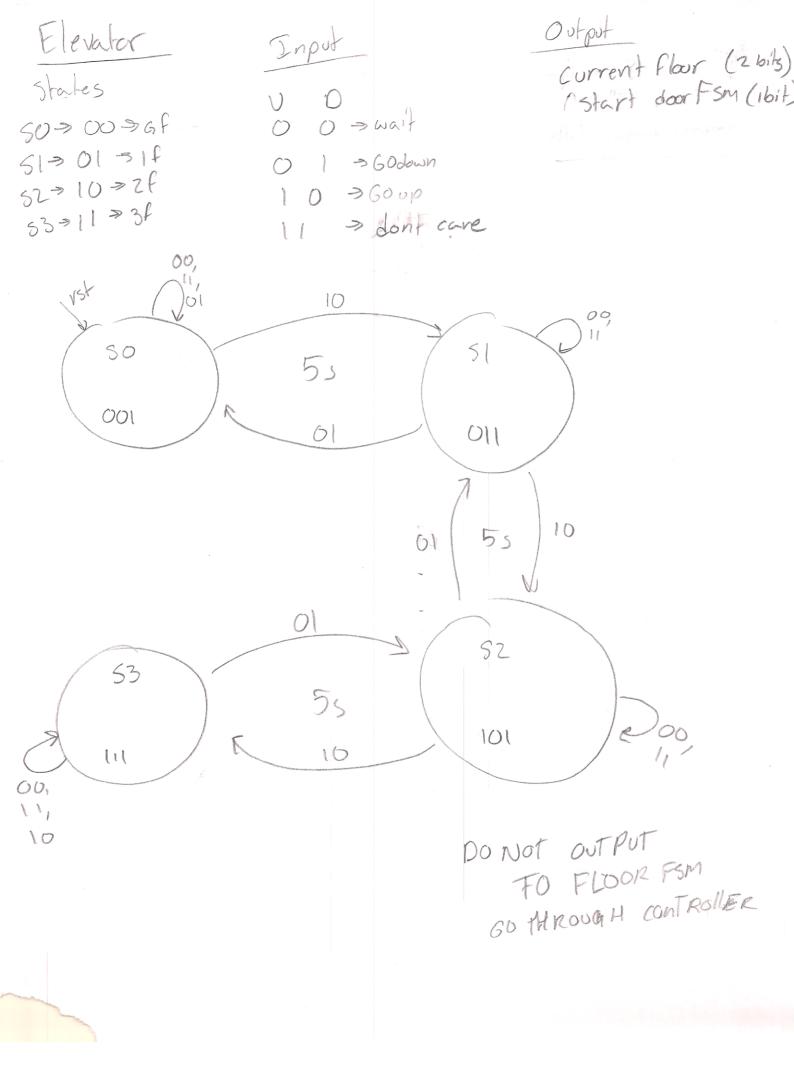
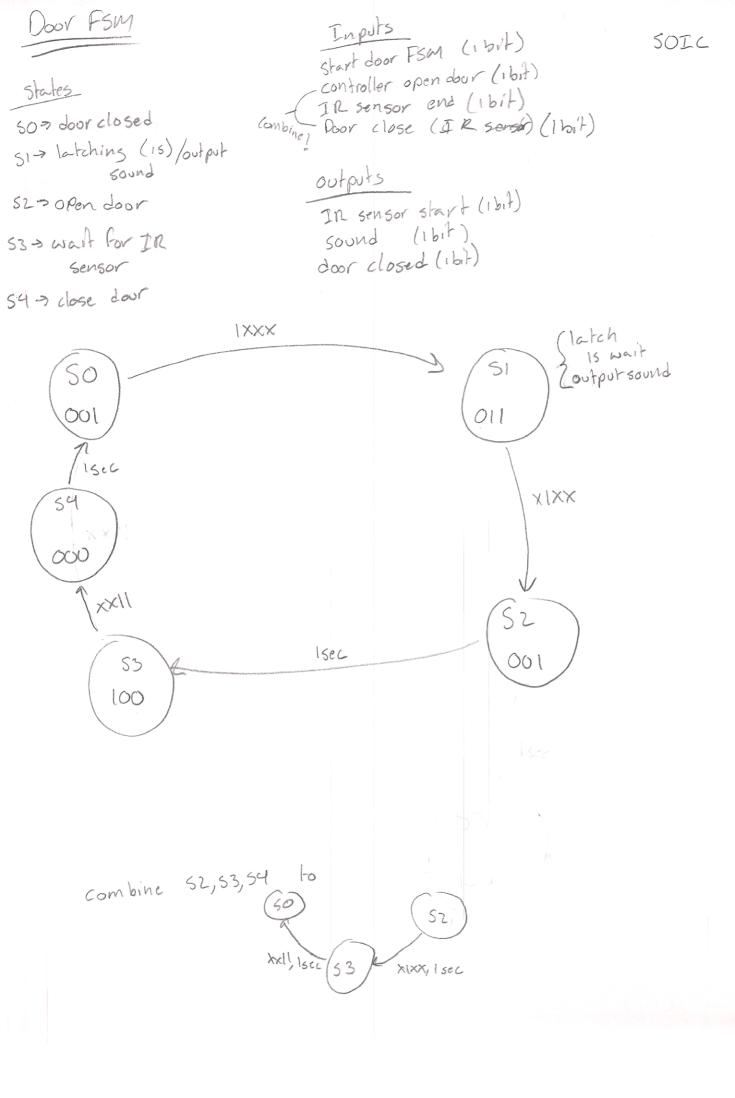
Language - C++ Classes - controller elevator (elevator FSM + DGOr FSM+IR sensor) memory (use std == vector?) floor lights Global vars - fire mode corrent elevator flour Maybe add graphies? > mouse over elevator when open to simulate "people" walking in/out -> states outputs in view 7 up down button 2 add 2 elevators? > SDL libs

Controller Inputs floor to so next (2 b/s) States Elevator reached signal (Hat) SO > Ask memory black box what floor the clevator (261/5) door closed (16it) SI > Elevator up latch (1bit) S2> Elevator down-539 wait for latch -S42 reply to door FSM -Outputs 55 > writ for door closed -Elevator up/down (2 bits) 56 > Default floor Reply to door FSM (1617) corrent floor dest. floor current floor = dest. Floor 50 current flour dest- Flour 010 XXXXX/ XXXXXX outor if (8-12) HAT Flow 001 ife (2-10) 2nd floor 55 if (10-8) 000





IR Sensor

states

SO-> 1st (IR sensor off)

SIP Person walking through

52 > No person walking through

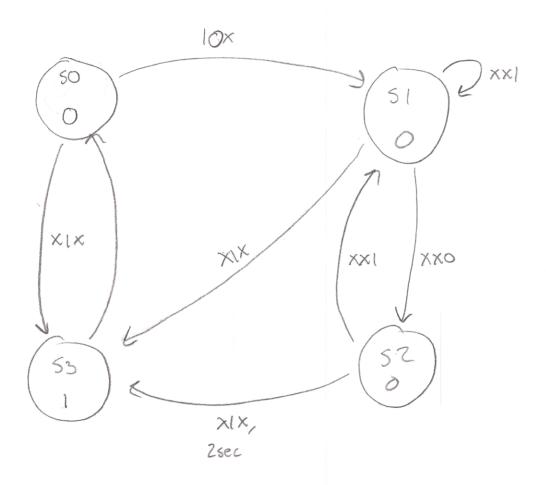
53 > Close dour

Inputs
start IR
fire state
IRON

SFI

output

Door close



FIRE Inpot-Fire key. Output inserted In Panic mode output-clr ment 000 0/01 If key was disconnected (Input 0) go to default SO-> Not in fire made 519 In fire mode

Controller (FIRE) some inputs as 50-3 parsed State (1st state) 519 60 NP 1 + door open 329 60 down 53-D walt For latch outputs 54-> wait for door open button Clevator up/down (2615) 55 - wait for door closed button door open (1614) foor closed (1 bit) curra dest/1000 door world 10000 door closed/ 55

Input Door FSM (FIRE) start (16/t) opendour (ibit) 50 > door closed close door (16it) 51-> latch/sound outputs 52-3 door open dow Sound 53-7 door closed close door doorclosed door inpen 1010

MEMORY-NO FSM (black box).

Clear mem - 15t

Input = Corrent Floor - 26ts

Jirection - 16it

output = Next Floor to stop at

Input = buttons from each floor

ITS A QUEBE

FIRST IN - FIRST OUT (FIFO)

if no next floor then

if (8m20)

1st floor

if (2pm10pm)

2nd floor

if (10pm 8mm)

Stay at urrent floor

FLOOR LIGHTS-NO FSM (black box) FSM Beems to difficult XXXXX Floor 6 op on > x20 bitor 1000000 Homen 2 x20 biter cant go down up off > x20 bitand Olli, 1111 F-100r 1 bitor 0100,0000 upon > x20 bitor 0000,0100 Joan on > x20 bitand 1011,1111 up off > 220 bitand 1111,1011 down off > x20

Inputs

Up/down (from controller)

Burrent floor (from elevator)

12 operations

pass function object

That takes

parameter of

x20 and rehais

the bitset greated

7.7.2,