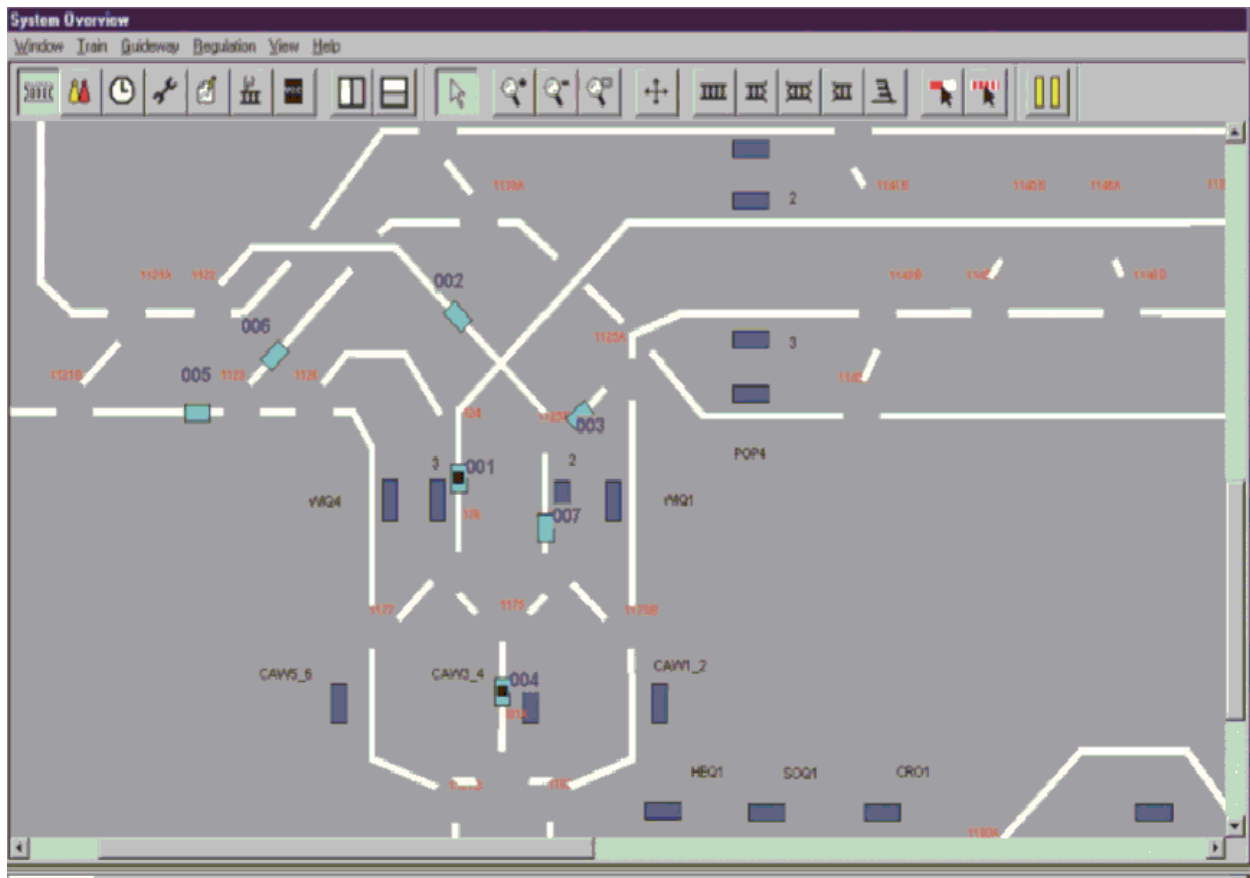


LIEM TRUONG
SOFTWARE PROJECTS PORTFOLIO

Software Analyst Alcatel ATS Canada

- It is a real-time windows application with client (MFC) and server to control automated driverless trains. It's an MFC C++ application with clients and servers. It uses graphics to draw and SQL Server to store information collected such as headway. I worked on implementing new features such as user authority and fixing defects.

Train Management Control System showing trains, tracks and platforms



Personal Project: Sultans of Wings (game)

- Built a shoot em up aircraft game using C++ and Simple and Fast Multimedia Library(SFML)
- The game has more than 35 enemy airplanes and the player is in control of F22 and F35

The main menu



The controls menu where the user can set the keys of functionalities



Dog fight with missiles and shooting at enemies



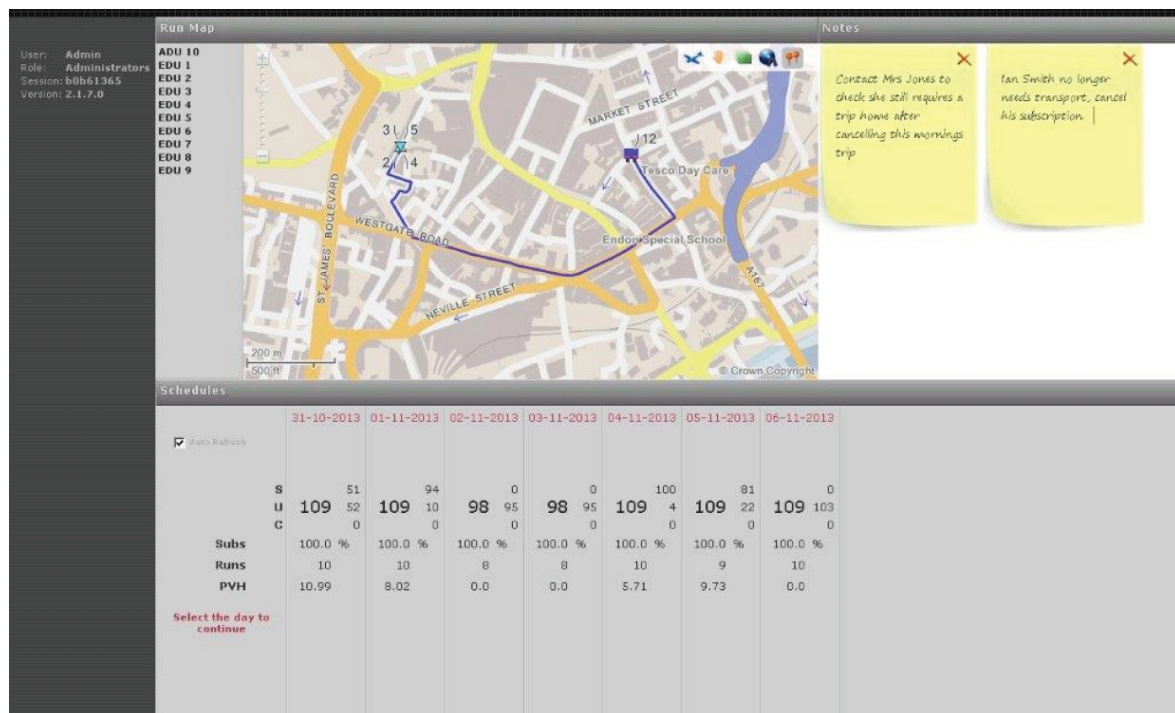
Another game. Zombie Area where the user can shoot the zombies.



Programmer Analyst/Developer Trapeze Group

- Implemented SQL queries for school bus application
- Architect and built graphic user interface and services to load data into application using C++, SQL, HTML and JavaScript
- Design and implemented data migration feature to transfer data from other databases into bus application
- Implemented algorithm to schedule students on a bus and student scheduling user interface using Javascript
- Extended web application framework using C++, STL, SQL, Javascript and HTML and provided various solutions to defect fixes in GUI, business logic and communication layer of school bus application
- The project is an school bus application, it contains students, maps, routes and schedules. It is a web application using HTML, javascript and Visual C++ on Windows. I work on implementation of rework on broken features, most of the features are broken. I also fix defects and write sql (SQL Server) queries.

Routes Map



Schedule Booking

Schedule Editor

Admin10/20/20135:07:37 PM

Current Schedule: 04-11-2013

EDU 10

Runs Map

Unscheduled

Willcall

Runs - 10

Run Name	Passenger C	Vehicle Id	Violations	Status	First Name	Run Id
EDU 10	17	10	0			13161
EDU 8	14	8	0			13162
EDU 9	12	9	0			13163
EDU 7	14	7	0			13164
EDU 6	14	6	0			13165
EDU 5	14	5	0			13166
EDU 4	0	4	0			13167
EDU 3	0	3	0			13168
EDU 2	0	2	0			13169
EDU 1	15	1	CAP	0		13170

Client Name	Origin	From/Polypsn	Requested Ti	Destination	Ta/Poly	Requested Ti pr
Chloe Denn 34 OTTERSI				Chase Spec		08:55
MR. JOHN A BATH LANE				Chase Spec		08:50

Map

Map showing route and locations including Throckley, North Walbottle, Westerhope, Cowgate, West Jesmond, Jesmond, Heaton, Byker, Benwell, Spital Tongues, Lemington, East Denton, Conham, Blaydon-On-Tyne, Winton, Winton Mill, Rowlands Gill, Sunnyside, Team Valley Trading Estate, Marley Hill, Gateshead, Felling, Windy Nook, Low Fell, Wrekenton, Eighton Banks, Bensham, Dunston, Whickham, and Sunnyside.

2 records, 1 page

Pages: 1

The screenshot displays the 'Schedule Editor' interface. On the left, a sidebar shows 'XP1-1' and 'Runs'. The main window is titled 'Current Schedule: 04-02-2012'. It features a map of San Francisco with a blue route line and numbered stops (1-25). A list on the left details the stops with their times and addresses.

Time	Act	Ad
1 7:43a	VAPO, BRYANT ST 94105	
2 8:00a	1423 19th Ave Oakland CA 94606	
3 8:03a	1881 8th Ave Oakland CA 94608	
4 8:08a	HOLY LAND KOSHER FOOD, 677 R	
5 8:13a	BRADFORD PHARMACY, 445 8TH S	
6 8:40a	3681 Glen Park Rd Oakland CA 946	
7 9:04a	ORRICO-ROMANA PIZZA CAPPE, 25	
8 9:16a	65 Arava Cir Sausalito CA 94965	
9 9:45a	1012 47th St Emeryville CA 94608	
10 9:50a	4133 Terrace St Oakland CA 94611	
11 10:01a	2812 Lincoln Ave Alameda CA 9460	
12 10:24a	LA POSTA RESTAURANT, 2891 24th	
13 10:29a	MANDARIN VILLA RESTAURANT, 1	
14 10:34a	1774 Beach St San Francisco CA 94	
15 10:54a	OLIVIA, 1453 DWIGHT WAY SAN F	
16 11:15a	74 De Bevo St San Francisco CA 94	
17 11:27a	DRAGON LOUNGE, 1335 TARKAVAY	
18 11:39a	SHOW GARDEN, 712 GRANT AVE S	
19 11:45a	741 Montgomery St San Francisco C	
20 11:46a	MECHANICS BANK, 343 SANSOME	
21 12:00p	285 Grant Ave San Francisco CA 94	
22 12:02p	BIG CITY WRAPS, 2 EMBARCADERO	
23 12:18p	FILIPPO'S EURO-CAFE, 5400 COLI	
24 12:35p	645 El Dorado Ave Oakland CA 946	
25 12:45p	4401 Jensen St Oakland CA 94601	
26 12:53p	GROCERY OUTLET, 2900 BROADWAY	
27 1:02p	2102 Clement Ave Alameda CA 945	
28 1:03p	OCEAN BEACH, GREAT HWY SAN F	
29 1:43p	9 Eagle St San Francisco CA 94114	
30 1:49p	2310 Filmore St San Francisco 9411	
31 1:54p	NOR HILL LAMBOURNE, 725 PENE	
32 1:58p	TOWER HOTEL, 1527 GRANT AVE S	
33 2:13p	CEBELLE'S PIZZA, 3763 PIEDMON	
34 2:30p	CHINA HOUSE, 2328 SANTA CLAR	
35 2:56p	398 Ellington Ave San Francisco CA	

The map shows the route starting in the north and heading south, with stops marked by numbered icons. A scale bar indicates 1 km and 5000 ft. The copyright notice at the bottom right reads '© 2012 Trapeze Group'.

- It is an application for mobile devices used in nursing and parcel deliveries. It keeps track of data on the mobile device and communicate with the server for data updates. It is a C# application on Windows. I worked on transferring the application to a new code platform developed in-house by another team.

Parcel Delivery

