**Project Evaluation**

For Multiagent Control of Traffic Signals

Version 1.0

Submitted in partial fulfillment of the requirements of the degree of MSE

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# Introduction

Lorem ipsum

## References

Lorem ipsum

# Process

## Problems Encountered

Roadblock with creating network structure

Lots of time spent with formal specification

I had older version 2.5 (June 2009) current is 3.0.0 (Sep 2011)

Lost focus on the problem trying to solve because of focus on how to do/express in OCL

USE seems more object oriented and my project has a strong service oriented distributed asynchronous architecture

Perhaps some other formal tool would have been better suited?

Future, consider other tools. Time box. Outside help.

I opted to try and use “cloud” resources – problems when internet connection not available

Have a plan B

Considerations regarding copyright of included materials when making publicly available on the web.

## Estimates

Lorem ipsum

### Source Lines of Code

Lorem ipsum

graph

### Rework

Lorem ipsum

Graph

### Project Duration

Pie charts:

Overall Phase 1, 2 & 3 time

Overall time in activities

Time in activity for each phase

## Lessons Learned

Formal specification did help me think about how the safety operations were going to work.

Upfront spikes/primers beneficial – SUMO, TraCI, Python, RabbitMQ, git

Testing coverage slides

Ability to focus on SR helpful

Being able to refer to a design helpful

“Now Habit” when can you start on something

While I had a Gantt chart, I really did more flow based task management.

Further into the project the cone of uncertainty narrows

Estimates refine/narrow as progress

Having a secondary machine was useful for spiking/testing alternate servers, etc.

Virtualization

Multiple git repos worked well

Future include OneNote nootbook in repo

Future secondary repo with tools

# Products

## Quality

### Rework Ratio

Formula

actuals

### Test Coverage

### Cyclomatic Complexity

#### Code Standard (PEP8)

### MTBF

## Future Work

Lorem ipsum

### More Generic

Lorem ipsum

### Larger Scale Coordination

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#### Between Agents

Lorem ipsum

#### Scaled out regional networks/exchanges

Lorem ipsum

### Efficiency

Subscriptions to metrics

Reduce the number of exchanges and use topics