PROJECT SCHEDULE TEMPLATE

PROJECT NAME : Embedded Traffic-Light **PROJECT MANAGER : Hayden Trent & Jack Lu & Liang Wenxuan**

PROJECT DELIVERABLE : Runnable C++ traffic signal controller simulation program (with pedestrian system), GitHub code library, and final documentation PDF.

SCOPE STATEMENT : This project is designed to implement a finite state machine based embedded traffic signal controller. This controller is written in C++. It is a system capable of simulating timed traffic signal switching and pedestrian push button control while ensuring traffic efficiency and pedestrian safety. It will implement follows object oriented programming principles and demonstrates a modular system design.

START DATE	END DATE	OVERALL PROGRESS
26-Feb-26	27-Apr-26	0%

TASK NAME	ASSIGNED TO	START DATE	END DATE	DURATION (in days)	STATUS	COMMENTS
Requirements Analysis and Project Proposal	TBD	28-Feb-26	7-Mar-26	7	Not Started	
Finite State Machine Diagram and System Architecture De	TBD	8-Mar-26	14-Mar-26	7	Not Started	
Class Diagram and Base Class Implementation	TBD	15-Mar-26	22-Mar-26	8	Not Started	
State Transition and Timer Module Development	TBD	23-Mar-26	31-Mar-26	9	Not Started	
Pedestrian System Implementation	TBD	1-Apr-26	5-Apr-26	5	Not Started	
Green Wave Coordination Logic	TBD	6-Apr-26	9-Apr-26	4	Not Started	
Console Visualization Module	TBD	6-Apr-26	12-Apr-26	7	Not Started	
Core Module Integration	TBD	10-Apr-26	14-Apr-26	5	Not Started	
Unit Testing	TBD	15-Apr-26	18-Apr-26	4	Not Started	
Integration Testing	TBD	19-Apr-26	21-Apr-26	3	Not Started	
Debugging and Timing Calibration	TBD	22-Apr-26	24-Apr-26	3	Not Started	
Performance Optimization	TBD	22-Apr-26	25-Apr-26	4	Not Started	
Documentation and Code Review	TBD	19-Apr-26	25-Apr-26	7	Not Started	
Final Testing and Demo Preparation	TBD	23-Apr-26	27-Apr-26	5	Not Started	