Real-Time Vehicle Tracking System Proposal

**Project Overview:**

This project involves developing a robust, real-time vehicle tracking system optimized for outdoor use, utilizing DSP (Digital Signal Processing) from Texas Instruments, specifically the TMS320C6000 series, to achieve high-performance tracking with minimal latency.

**Phase 1: Requirement Analysis and Design (1 week) : $1000**

- System architecture design, including hardware and software components.

- Selection and procurement of necessary hardware (DSP chips, GPS modules, etc.).

**Phase 2: Hardware Integration and Setup (3 Weeks) : $3000**

- Integration of DSP chips and other hardware components.

- Initial testing and setup of the outdoor tracking environment.

- Calibration of sensors and GPS modules.

**Phase 3: Software Development (3 Weeks) : $3000**

- Development of the core tracking algorithm using C/C++ and DSP optimization.

- Integration of real-time GPS data processing and vehicle-specific optimizations.

- Development of the user interface using Qt or C++(C#).

- Implementation of reporting features, data storage, and historical tracking logs.

**Phase 4: Testing and Optimization (1 Weeks) : $1000**