

## DESIGN OF A LOW COST HELMET MOUNTED DEAD RECKONING NAVIGATION SYSTEM

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### ABSTRACT

This paper describes a navigation system that helps pedestrians to find his / her current position, using a technique known as a waiver GPS navigation systems proposed. GPS is a navigation system that provides information instantly sub meter positioning accuracy for users worldwide. Created on the basis of the selector in which the user specifies at the surface location using ranging information from multiple satellites. Because of its high performance and capabilities, GPS is scheduled to be the primary means of navigation for all sectors. However, GPS is susceptible to electrical noise and interference. Low power transmission in some intentional or unintentional radio-frequency bands can make GPS unusable in a wide geographical area. Dead reckoning is a form of navigation on the current position of pedestrians clearly knows the speed and direction of the course from the last known position. The main advantage of the calculation is based on the sensors contained within and therefore provides a navigation system that does not require interaction with the outside world. Stand-alone browser, it is especially desirable as a backup navigation system.

**KEYWORDS:** Dead Reckoning, Robust Pedestrian Tracking, Location Estimation