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Location and Tracking System Device (GPS) using Wireless Technology

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***Abstract*: This paper reviews the location tracking system device using wireless technology. A system and devices for locating an object, in which the system includes objects having location tags for projecting data about the object, a processing unit for receiving data about the object, and an algorithm for processing the data. A GPS tracking unit is device, normally carried by a moving vehicle or person, that user the Global positioning system to determine and track its precise location. GPS enabled mobile phones, allows people to share their current location with other. The processes the data, provides a location estimate about the object and thereby location the object.**

***Keywords*: GPS, Device, wireless, Antennae, microcontroller, sensor, mobile phones, locates.**

1. Introduction

A person tracking system can allow you to monitor your vehicles and locate your family in an emergency. It can also notify you if the vehicles has been involved in an accident. Personal tracking a help you keep your teen driver accountable and it can give your family peace of mind. It can help an you locate them if they get lost or in the case of an emergency. A GPS locator can give you an extra layer of protection and safety for your loved ones. Accountability significantly reduces the odds of your teen being involved in an accident. Using our system to track your teen can encourage that accountability. Object tracking localization has been a topic of interest in many civilian and military applications. Abundant examples for such applications range from assistive technology and robot navigation to search and rescue mission and virtual reality system. Localization is the process of determining the position of an object in space tracking seeks to identify the position of an object over time. In some cases, the problem of tracking may be reduce to a series of localization problem. However, localizing a stationary object often differ from localizing a moving object because the moving object exhibits different characteristics. A variety of solution exist for the localization and tracking problems distinguished by the characteristics of the object, the environment, and the available technology in this paper, we discuss many of the available system and algorithm.

2. Existing system

The recent proliferation of gps-enabled mobile phones has allowed people to share their current locations with others [6], [7]. We explorer a way of learning a user's location privacy preference using sensors that are energy saving and that do not rely on external providers. This enables us to save energy and protect a user's privacy when she is unwilling to disclose her location [10]. GPS application are modeled using dual-polarized antenna elements. Time synchronization system that utilize the global navigation satellite system(GNSS)are widely used in the monitoring, control, and protection of transmission networks. The results show a 1588 time synchronization system is accurate, secure, and ideally suited for protection and control application, compared to a timing system merely based on gps receivers. A data acquisition unit which synchronously sample multiple channels in a manner such that the time of day at which each sample is taken is known. This allow rapid intergration with popular numerical simulation environments. The arcing voltage threshold for gps-like array performed in the spacecraft charging and instrument calibration laboratory at the air force research laboratory's battle space environment laboratory at Kirtland air force base, New Mexico, USA, GPS satellites on orbit can be completely accounted for by arcing at the anomalous event rates seen by LANL radio frequency detectors onboard [15].

A. Disadvantages

The GPS may fail due to certain reasons and in that care you need to carry a backup map and directions. If you are using gps on a battery failure and you may need an external power supply which is not always possible, sometimes the gps signals are not accurate.

3. Proposed system

A method for locating an object, comprising obtaining received signal an strength indication data from fixed or mobile objects; where in the received signal strength indication data is projected from a wireless transceiver associated with the object, obtaining sensory data about the object, where in the sensory data is projected from a mobility sensor associated with the object-receiving the sensory data and received signal strength indication data about the object by a processing unit. processing the sensory data and received signal strength indication data about the object in an algorithm that provides a location

estimate about the object and there by locates the object [8], [9]. Identify opportunities to enhance technical skills in your formal educational experience. Then, consider the value of active membership in IEEE women in engineering and other professional organizations for development of nontechnical skills. There organizations are excellent "laboratories" in which you can practice and enhance communication, time management, organization, teamwork, project management, and interpersonal skills [11][16]. When developing action plans, it is important to understand the difference between an action plan item and a goal. Continue this process for mid-and long-term goals and skill development [13].

A. Advantages

Your action plan should also include a systematic process of analyzing results. This evaluation identifies your level of success in reaching goals and developing desired skills that are defined in your strategy to accomplish your visions. This also provides the foundation for career. You will not be successful in taking advantage of unexpected opportunities unless you are proactive and develop skills for possible situations before they appear.

4. Methodology

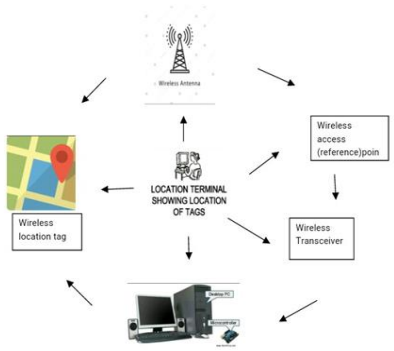

Fig. 1. Location tracking system using wireless technology

The present invention relates to system for locating, orienting, and tracking one on more objects, particularly object equipped with one or more location tags using wireless network technology. Wireless technology means without any cable connection or wiring through radio waves information we receive. This technology was used in 1876. New at present technology is growned to use wireless computer networks. Examples, Bluetooth, DECT, Wimax, with etc… The objects required to trace the location is wireless Antennae, microcontroller, wireless transceiver unit. A system for location object comprising, an object having a location tag comprising a mobility sensor (wireless Antennae). The system where in the mobility sensor is an accelerometer. Angular rate sensor, gyroscope or gravimeter. The system in the processing unit(CPU) has microcontroller which provide information about real-time of the system. Also include hardware and mechanical parts. Then, the wireless transceiver provides the received signal strength indication. The system of the processing unit is associated with a central node (end point) at a fixed location.

5. Result

Estimates the current location and track of one or more object using wireless technology in the living world. your action plan should also include a systematic process of analyzing results.

6. Future enhancement

The future works to develop a location tracking system. The reliable intelligent driver assistance systems and safety warning systems is still a long way to go. The computing power, sensing capacity, and wireless connectivity for vehicles rapidly increase, the concept of assisted driving and proactive safety warning is speeding towards reality. As technology improves, a vehicle will become just a computer with tires. Driving on roads will be just like surfing the web there will be traffic congestion but no injuries or fatalities.

7. Conclusion

This paper provides a foundation, A system that locates objects, mobile or static, using a wireless network and cooperating location tags. The system can locate tags that are placed or moved inside the coverage area of the system. The present invention takes advantage of readily available technology components, such as wireless communication system, mobility sensors and processing units to locate and track one or more objects.

"Floating through life without planning is the same as tracking a long road trip without a GPS or sailing the seas without a compass".

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