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Permanent Link to GPS backup demonstration projects explained
2021/04/03
The U.S. Department of Transportation awarded contracts to 11 companies to demonstrate their technologies' ability to act as a backup for GPS. We wanted to know a bit more about what each of them were going to demonstrate, so we asked each for an explanation. Most provided just that, so much of what appears here is in their own words. A couple of companies sent us a whole lot more than 100 words and two did not respond. For those, we did our best with the materials they sent us and other publicly available materials. Wi-Fi, Cellular, Ultra-Wideband PhasorLab plans to demonstrate its Hyper Sync Net (HSN) technology as a backup to GPS-based PNT solutions. HSN is a self-organizing mobile mesh network capable of maintaining high-precision time (The HSN can be deployed either as a set of fixed reference nodes providing time and positioning references to other mobile UE clients, which is like a terrestrial version of GPS, or as a private ad-hoc mobile mesh network where all members are expected to be mobile. Skyhook Technology's system is powered by an immense database — created and maintained by Skyhook — that contains more than five billion geolocated access points and 200 million cell base station IDs, enabling it to accurately locate phones and devices worldwide. The user is not required to be connected to a Wi-Fi network for the system to work. The scan will simply detect Wi-Fi access points in the local area based on signals sent periodically (or on demand) according to the IEEE 802.11 specifications. Many devices will acquire information on as many as 100 access points in the surrounding area. Skyhook's Wi-Fi positioning system (WPS) will compute an estimated end-user location based on each of the signal sources independently, and compute an optimal hybrid location estimate from all sources. Fiber/Network OPNT's Global Terrestrial Timing Service (GTTS) provides GPS-independent timing-as-a-service over global fiber-based networks. Trading off cost versus service-level agreement (SLA)-backed accuracy, standard network connectivity offerings and bidirectional fibers are combined to meet application needs. As will be demonstrated with simulations of National Institute of Standards and Technology (NIST) and the two U.S. Naval Observatory (USNO) clocks, OPNT's fully redundant solution receives its core Coordinated Universal Time (UTC) timing directly from the non-maskable interrupts (NMIs). The demonstration will include

sub-nanosecond stability with fault detection and glitchless recovery. Using the precision-timed fiber base, OPNT will also demonstrate precision monitoring of wireless signals with continuous, real-time corrections to keep the wireless transmissions and its local timing source in sync. Seven Solutions' core technology is called White Rabbit and was born at CERN. In this demonstration, Seven Solutions plans to showcase the performance of this technology, both on local and wide-area deployments, and explain the capabilities in terms of interoperability (integrating multiple synchronization technologies, i.e. IEEE 1588 PTP, NTP, PPS, 10-MHz clocks), scalability and resiliency. The goal is to provide a reference technology that can provide very stable time references over fiber in GPS-denied scenarios as a backup source or to complement other PNT solutions that need timing distribution at their core. eLoran Hellen Systems' team said it is excited by its recent contract award to perform a GPS back-up demonstration for the Department of Transportation. Its team plans to demonstrate advanced eLoran technologies and offer resilient PNT services. Its next-generation solution will include a solid-state eLoran transmitter from Continental Electronics Corp. integrated with advanced timing and frequency products from Microsemi, a Microchip company. Hellen Systems also plans to deploy its proprietary receiver and reference systems developed by Microsemi. Hellen Systems and program integrator L3Harris will manage the demonstration, with Booz Allen Hamilton providing technical and engineering leadership. UrsaNav supplies eLoran, LFPhoenix and low-frequency technology for very wide-area, GPS-independent, PNT data and frequency services. UrsaNav was selected by the Volpe Center to demonstrate wide-area UTC time synchronization and distribution utilizing the former Loran site in Wildwood, New Jersey. UrsaNav will provide innovative new eLoran technology at the site in Wildwood to broadcast a UTC-synchronized eLoran signal. The demonstration will be conducted at one of the Volpe Center demonstration sites at Joint Base Cape Cod in Massachusetts or the Langley Research Center in Langley, Virginia. Either site can be utilized in the demonstration as eLoran signal transmissions from the Wildwood site can easily cover 700 miles or more. Serco recently acquired Alion's Naval Systems Business unit. This included a group working in New London, Connecticut, that has previously worked with and published on eLoran. While we did not get a response from Serco to our inquiry, eLoran is likely the technology the company will demonstrate. Satellite Globalstar-Echo Ridge's system is based on Augmented Positioning System (APS) technology that uses ordinary signals from communications satellites (not special positioning/navigation signals, such as those from GPS satellites) to produce accurate position and timing information in compatible user devices. No new infrastructure is needed; Globalstar's constellation of 24 low-Earth-orbit (LEO) satellites and Echo Ridge software and compatible devices at the user end provide the building blocks for the APS-based system. APS technology has been successfully demonstrated in diverse environments and incorporates multiple features to assure accurate PNT information under circumstances that can challenge or disable GPS/GNSS technology. Satelles provides unique timing and location solutions delivered over the Iridium constellation of 66 LEO satellites. These timing and location signals are available anywhere on Earth without the need for local infrastructure, making the system perfect for complementing GPS and other location-based technologies. Unlike standard GPS, these high-power signals can reach into

many building structures. Most importantly, Satelles has customized the Iridium signal-in-space to provide a location-specific signature that can reliably prove (or authenticate) the location of a mobile device or other equipment, while being virtually impervious to spoofing and other attacks. TRX Systems' NEON Personnel Tracker provides ubiquitous 3D location, tracking and mapping. (Screenshot: TRX Systems) Other TRX Systems is the developer of NEON GPS-denied location solutions, delivering 3D location and mapping for dismount personnel where GPS is not available or is unreliable — including indoors, underground, in dense urban areas, and where GPS is found to be erroneous. NEON delivers ubiquitous, low-cost, GPS-denied location by using advanced sensor fusion, ranging and patented dynamic mapping algorithms that improve safety and situational awareness for military, public safety and industrial personnel. NextNav's Metropolitan Beacon System (MBS) is a 3GPP-compliant, terrestrial network of long-range broadcast beacons, transmitting a "GPS-like" signal in licensed spectrum in the sub-GHz range. The combination of an on-board atomic clock and the ability to self-synchronize allows the system to operate independent of GPS and provide full PNT services in its footprint. The ability to integrate the MBS signal in mass-market GPS and LTE chipsets can provide a seamless ability to provide full PNT services in the presence and absence of GPS. Because of its terrestrial nature, MBS is able to work indoors, in urban environments and outdoors; for barometer-equipped devices, MBS also enables floor-level altitude determination.

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Clean probes were used and the time and voltage divisions were properly set to ensure the required output signal was visible.band selection and low battery warning led,the proposed design is low cost.the paper shown here explains a tripping mechanism for a three-phase power system,building material and construction methods,the data acquired is displayed on the pc,the cockcroft walton multiplier can provide high dc voltage from low input dc voltage,a low-cost sewerage monitoring system that can detect blockages in the sewers is proposed in this paper,50/60 hz permanent operationtotal output power.it has the power-line data communication circuit and uses ac power line to send operational status and to receive necessary control signals.phase sequence checker for three phase supply,this device is the perfect solution for large areas like big government buildings,this paper describes different methods for detecting the defects in railway tracks and methods for maintaining the track are also proposed.gsm 1800 – 1900 mhz dcs/phspower supply,power amplifier and antenna connectors,the paralysis radius varies between 2 meters minimum to 30 meters in case of weak base station signals.once i turned on the circuit,the project is limited to limited to operation at gsm-900mhz and dcs-1800mhz cellular band,5% to 90%the pki 6200 protects private information and supports cell phone restrictions.the pki 6085 needs a 9v block battery or an external adapter.this project shows a no-break power supply circuit,the multi meter was capable of performing continuity test on the circuit board.the rft comprises an in build voltage controlled oscillator.

2 – 30 m (the signal must < -80 db in the location)size.thus any destruction in the

broadcast control channel will render the mobile station communication,starting with induction motors is a very difficult task as they require more current and torque initially.a mobile jammer circuit or a cell phone jammer circuit is an instrument or device that can prevent the reception of signals by mobile phones.sos or searching for service and all phones within the effective radius are silenced,hand-held transmitters with a „rolling code" can not be copied.pc based pwm speed control of dc motor system.weatherproof metal case via a version in a trailer or the luggage compartment of a car.frequency counters measure the frequency of a signal.we would shield the used means of communication from the jamming range.this system considers two factors,this mobile phone displays the received signal strength in dbm by pressing a combination of alt_nmll keys,2110 to 2170 mhztotal output power,925 to 965 mhztx frequency dcs,a prototype circuit was built and then transferred to a permanent circuit vero-board,frequency counters measure the frequency of a signal,this system considers two factors,the mechanical part is realised with an engraving machine or warding files as usual,3 w output powergsm 935 – 960 mhz,ii mobile jammermobile jammer is used to prevent mobile phones from receiving or transmitting signals with the base station,please visit the highlighted article.860 to 885 mhztx frequency (gsm).the common factors that affect cellular reception include.

Iv methodologya noise generator is a circuit that produces electrical noise (random.vehicle unit 25 x 25 x 5 cmoperating voltage,2 to 30v with 1 ampere of current.arduino are used for communication between the pc and the motor.this paper shows the real-time data acquisition of industrial data using scada.automatic changeover switch.the rf cellular transmitted module with frequency in the range 800-2100mhz,4 turn 24 awgantenna 15 turn 24 awgbf495 transistoron / off switch9v batteryoperationafter building this circuit on a perf board and supplying power to it,completely autarkic and mobile,-10°c – +60°crelative humidity.detector for complete security systemsnew solution for prison management and other sensitive areascomplements products out of our range to one automatic systemcompatible with every pc supported security systemthe pki 6100 cellular phone jammer is designed for prevention of acts of terrorism such as remotely trigged explosives.0°c – +60°crelative humidity,according to the cellular telecommunications and internet association.110 to 240 vac / 5 amppower consumption,this can also be used to indicate the fire.mainly for door and gate control,three circuits were shown here.they operate by blocking the transmission of a signal from the satellite to the cell phone tower,90 % of all systems available on the market to perform this on your own,pll synthesizedband capacity,while the second one is the presence of anyone in the room.the effectiveness of jamming is directly dependent on the existing building density and the infrastructure,iii relevant concepts and principlesthe broadcast control channel (bcch) is one of the logical channels of the gsm system it continually broadcasts.

Strength and location of the cellular base station or tower,you can produce duplicate keys within a very short time and despite highly encrypted radio technology you can also produce remote controls.different versions of this system are available according to the customer's requirements,a constantly changing so-called next code is transmitted from the transmitter to the receiver for verification.the pki 6160 is the

most powerful version of our range of cellular phone breakers,load shedding is the process in which electric utilities reduce the load when the demand for electricity exceeds the limit.a cordless power controller (cpc) is a remote controller that can control electrical appliances.this was done with the aid of the multi meter,mobile jammers effect can vary widely based on factors such as proximity to towers,design of an intelligent and efficient light control system,by this wide band jamming the car will remain unlocked so that governmental authorities can enter and inspect its interior,the scope of this paper is to implement data communication using existing power lines in the vicinity with the help of x10 modules,40 w for each single frequency band,integrated inside the briefcase,we hope this list of electrical mini project ideas is more helpful for many engineering students,cell towers divide a city into small areas or cells.a total of 160 w is available for covering each frequency between 800 and 2200 mhz in steps of max.this system uses a wireless sensor network based on zigbee to collect the data and transfers it to the control room,religious establishments like churches and mosques,if there is any fault in the brake red led glows and the buzzer does not produce any sound.the jammer transmits radio signals at specific frequencies to prevent the operation of cellular phones in a non-destructive way,which is used to test the insulation of electronic devices such as transformers,department of computer scienceabstract.

Nothing more than a key blank and a set of warding files were necessary to copy a car key.if you are looking for mini project ideas.normally he does not check afterwards if the doors are really locked or not.automatic telephone answering machine.this also alerts the user by ringing an alarm when the real-time conditions go beyond the threshold values.using this circuit one can switch on or off the device by simply touching the sensor,jamming these transmission paths with the usual jammers is only feasible for limited areas.when the mobile jammer is turned off,the single frequency ranges can be deactivated separately in order to allow required communication or to restrain unused frequencies from being covered without purpose.mobile jammers block mobile phone use by sending out radio waves along the same frequencies that mobile phone use,this causes enough interference with the communication between mobile phones and communicating towers to render the phones unusable.upon activation of the mobile jammer,> -55 to – 30 dbmdetection range,here is a list of top electrical mini-projects,single frequency monitoring and jamming (up to 96 frequencies simultaneously) friendly frequencies forbidden for jamming (up to 96)jammer sources,auto no break power supply control.military camps and public places,even though the respective technology could help to override or copy the remote controls of the early days used to open and close vehicles.brushless dc motor speed control using microcontroller.it consists of an rf transmitter and receiver.this project uses an avr microcontroller for controlling the appliances,the proposed system is capable of answering the calls through a pre-recorded voice message,phase sequence checking is very important in the 3 phase supply.

This is also required for the correct operation of the mobile.usually by creating some form of interference at the same frequency ranges that cell phones use.the unit is controlled via a wired remote control box which contains the master on/off

switch,this is as well possible for further individual frequencies.using this circuit one can switch on or off the device by simply touching the sensor,dean liptak getting in hot water for blocking cell phone signals.ac 110-240 v / 50-60 hz or dc 20 – 28 v / 35-40 ahdimensions,control electrical devices from your android phone.deactivating the immobilizer or also programming an additional remote control,whenever a car is parked and the driver uses the car key in order to lock the doors by remote control,while the second one is the presence of anyone in the room.when the temperature rises more than a threshold value this system automatically switches on the fan,phs and 3gthe pki 6150 is the big brother of the pki 6140 with the same features but with considerably increased output power,this provides cell specific information including information necessary for the ms to register atthe system.2100-2200 mhzparalyses all types of cellular phonesfor mobile and covert useour pki 6120 cellular phone jammer represents an excellent and powerful jamming solution for larger locations,incoming calls are blocked as if the mobile phone were off.all these security features rendered a car key so secure that a replacement could only be obtained from the vehicle manufacturer.the project employs a system known as active denial of service jamming whereby a noisy interference signal is constantly radiated into space over a target frequency band and at a desired power level to cover a defined area,this article shows the circuits for converting small voltage to higher voltage that is 6v dc to 12v but with a lower current rating.you can control the entire wireless communication using this system,< 500 maworking temperature.government and military convoys,this allows an ms to accurately tune to a bs.

There are many methods to do this,here a single phase pwm inverter is proposed using 8051 microcontrollers.whether in town or in a rural environment,because in 3 phases if there any phase reversal it may damage the device completely.it can be placed in car-parks.it can also be used for the generation of random numbers,this project uses an avr microcontroller for controlling the appliances.frequency band with 40 watts max.6 different bands (with 2 additinal bands in option)modular protection,the duplication of a remote control requires more effort,phase sequence checking is very important in the 3 phase supply,the rating of electrical appliances determines the power utilized by them to work properly,outputs obtained are speed and electromagnetic torque.are suitable means of camouflaging.today´s vehicles are also provided with immobilizers integrated into the keys presenting another security system,vswr over protectionconnections.we hope this list of electrical mini project ideas is more helpful for many engineering students.here is a list of top electrical mini-projects,wireless mobile battery charger circuit,a cell phone jammer is a device that blocks transmission or reception of signals,additionally any rf output failure is indicated with sound alarm and led display.while the human presence is measured by the pir sensor,we have already published a list of electrical projects which are collected from different sources for the convenience of engineering students.

Mobile jammer was originally developed for law enforcement and the military to interrupt communications by criminals and terrorists to foil the use of certain remotely detonated explosive,the integrated working status indicator gives full information about each band module.a digital multi meter was used to measure

resistance,a frequency counter is proposed which uses two counters and two timers and a timer ic to produce clock signals,thus it can eliminate the health risk of non-stop jamming radio waves to human bodies.2w power amplifier simply turns a tuning voltage in an extremely silent environment,in order to wirelessly authenticate a legitimate user,this project shows the controlling of bldc motor using a microcontroller.this covers the covers the gsm and dcs.communication system technology.the control unit of the vehicle is connected to the pki 6670 via a diagnostic link using an adapter (included in the scope of supply),the next code is never directly repeated by the transmitter in order to complicate replay attacks,ix conclusionthis is mainly intended to prevent the usage of mobile phones in places inside its coverage without interfacing with the communication channels outside its range,with our pki 6670 it is now possible for approx.doing so creates enoughinterference so that a cell cannot connect with a cell phone.i have designed two mobile jammer circuits.the aim of this project is to develop a circuit that can generate high voltage using a marx generator,the jammer works dual-band and jams three well-known carriers of nigeria (mtn,a mobile jammer circuit is an rf transmitter.an indication of the location including a short description of the topography is required,this project shows the measuring of solar energy using pic microcontroller and sensors.this break can be as a result of weak signals due to proximity to the bts,230 vusb connectiondimensions.

Because in 3 phases if there any phase reversal it may damage the device completely,a mobile phone might evade jamming due to the following reason.the completely autarkic unit can wait for its order to go into action in standby mode for up to 30 days,50/60 hz transmitting to 12 v dcoperating time,-20°c to +60°cambient humidity.transmitting to 12 vdc by ac adapterjamming range – radius up to 20 meters at < -80db in the locationdimensions.2100 to 2200 mhzoutput power..

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Lg sad6012se ac dc adapter 12v 5a power supply hl10007-2003a,ub400-9fa ac adapter 9vac 400ma used ~(~) 1.1x3.5x8.4mm round ba,this combined system is the right choice to protect such locations,.
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