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Permanent Link to Challenged Positions: Dynamic Sensor Network, Distributed GPS Aperture, and Inter-nodal Ranging Signals  
2021/03/15

A performance assessment demonstrates the ability of a networked group of users to locate themselves and each other, navigate, and operate under adverse conditions in which an individual user would be impaired. The technique for robust GPS positioning in a dynamic sensor network uses a distributed GPS aperture and RF ranging signals among the network nodes. By Dorota A. Grejner-Brzezinska, Charles Toth, Inder Jeet Gupta, Leilei Li, and Xiankun Wang In situations where GPS signals are subject to potential degradations, users may operate together, using partial satellite signal information combined from multiple users. Thus, collectively, a network of GPS users (hereafter referred to as network nodes) may be able to receive sufficient satellite signals, augmented by inter-nodal ranging measurements and other sensors, such as inertial measurement unit (IMU), in order to form a joint position solution. This methodology applies to numerous U.S. Department of Defense and civilian applications, including navigation of dismounted soldiers, emergency crews, on-the-fly formation of robots, or unmanned aerial vehicle (UAV) swarms collecting intelligence, disaster or environmental information, and so on, which heavily depend on availability of GPS signals. That availability may be degraded by a variety of factors such as loss of lock (for example, urban canyons and other confined and indoor environments), multipath, and interference/jamming. In such environments, using the traditional GPS receiver approach, individual or all users in the area may be denied the ability to navigate. A network of GPS receivers can in these instances represent a spatially diverse distributed aperture, which may be capable of obtaining gain and interference mitigation. Further mitigation is possible if selected users (nodes) use an antenna array rather than a single-element antenna. In addition to the problem of distributed GPS aperture, RF ranging among network nodes and node geometry/connectivity forms another topic relevant to collaborative navigation. The challenge here is to select nodes, which can receive GPS signals

reliably, further enhanced by the distributed GPS aperture, to serve as pseudo-satellites for the purpose of positioning the remaining nodes in the network. Collaborative navigation follows from the multi-sensor navigation approach, developed over the past several years, where GPS augmentation was provided for each user individually by such sensors as IMUs, barometers, magnetometers, odometers, digital compasses, and so on, for applications ranging from pedestrian navigation to georegistration of remote sensing sensors in land-based and airborne platforms. Collaborative Navigation The key components of a collaborative network system are inter-nodal ranging sub-system (each user can be considered as a node of a dynamic network); optimization of dynamic network configuration; time synchronization; optimum distributed GPS aperture size for a given number of nodes; communication sub-system; and selection of master or anchor nodes. Figure 1 illustrates the concept of collaborative navigation in a dynamic network environment. Sub-networks of users navigating jointly can be created ad hoc, as indicated by the circles. Some nodes (users) may be parts of different sub-networks. FIGURE 1. Collaborative navigation concept. In a larger network, the selection of a sub-network of nodes is an important issue, as in case of a large number of users in the entire network, computational and communication loads may not allow for the entire network to be treated as one entity. Still, information exchange among the sub-networks must be assured. Conceptually, the sub-networks can consist of nodes of equal hierarchy or may contain master (anchor) nodes that normally have a better set of sensors and collect measurements from all client nodes to perform a collaborative navigation solution. Table 1 lists example sensors and techniques that can be used in collaborative navigation. TABLE 1. Typical sensors for multi-sensor integration: observables and their characteristics, where  $X, Y, Z$  are the 3D coordinates,  $v_x, v_y, v_z$  are the 3D velocities, The concept of a master node is also crucial from the stand point of distributed GPS aperture, where it is mandatory to have master nodes responsible for combining the available GPS signals. Master nodes or some selected nodes will need anti-jamming protection to be effective in challenged electromagnetic (EM) environments. These nodes may have stand-alone anti-jamming protection systems, or can use the signals received by antennas at various nodes for nulling the interfering signals. Research Challenges Finding a solution that renders navigation for every GPS user within the network is challenging. For example, within the network, some GPS nodes may have no access to any of the satellite signals, and others may have access to one or more satellite signals. Also, the satellite signals received collectively within the network of users may or may not have enough information to determine uniquely the configuration of the network. A methodology to integrate sensory data for various nodes to find a joint navigation solution should take into account: acquisition of reliable range measurements between nodes (including longer inter-nodal distances); limitation of inter-nodal communication (RF signal strength); assuring time synchronization between sensors and nodes; and limiting computational burden for real time applications. Distributed GPS Apertures In the case of GPS signal degradation due to increased path loss and radio frequency interference (RFI), one can use an antenna array at the receiver site to increase the gain in the satellite signal direction as well as steer spatial nulls in the interfering signal directions. For a network of GPS users, one may be able to combine the signals received at various receivers (nodes) to achieve these goals (beam pointing and null

steering); see Figure 2. Figure 2. Distributed antenna array. However, a network of GPS users represents a distributed antenna aperture with large (hundreds of wavelengths) inter-element spacing. This large thinned antenna aperture has some advantage and many drawbacks. The main advantage is increased spatial resolution which allows one to discriminate between signals sources with small angular separations. The main drawback is very high sidelobes (in fact, grating lobes) which manifest as grating nulls (sympathetic nulls) in null steering. The increased inter-element spacing will also lead to the loss of correlation between the signals received at various nodes. Thus, space-only processing will not be sufficient to increase SNR by combining the satellite signals received at various nodes. One has to account for the large delay between the signals received at various nodes. Similarly, for adaptive null steering, one has to use space-time adaptive processing (STAP) for proper operation. These research challenges must be solved for distributed GPS aperture to become a reality: Investigate the increase in SNR that can be obtained by employing distributed GPS apertures (accounting for inaccuracies in the inter-nodal ranging measurements). Investigate the improvement in the signal-to-interference-plus-noise ratio (SINR) that can be obtained over the upper hemisphere when a distributed GPS aperture is used for adaptive null steering to suppress RFI in GPS receivers. Obtain an upper bound for inter-node distances. Based on the results of the above two investigations, develop approaches for combined beam pointing and null steering using distributed GPS apertures.

#### Inter-Nodal Ranging Techniques

In a wireless sensor network, an RF signal can be used to measure ranges between the nodes in various modes. For example, WLAN observes the RF signal strength, and UWB measures the time of arrival, time difference of arrival, or the angle of arrival. There are known challenges, for example, signal fading, interference or multipath, to address for a RF-based technique to reliably serve as internodal ranging method.

#### Ranging Based on Optical Sensing

Inter-nodal range measurements can be also acquired by active and passive imaging sensors, such as laser and optical imaging sensors. Laser range finders that operate in the eye-safe spectrum range can provide direct range measurements, but the identification of the object is difficult. Thus, laser scanners are preferred, delivering 3D data at the sensor level. Using passive imagery, such as digital cameras, provides a 2D observation of the object space; more information is needed to recover 3D information; the most typical techniques is the use of stereo pairs or, more generally, multiple-image coverage. The laser has advantages over optical imagery as it preserves the 3D object shapes, though laser data is more subject to artifacts due to non-instantaneous image formation. In general, regardless whether 2D or 3D imagery is used, the challenge is to recognize the landmark under various conditions, such as occlusions and rotation of the objects, when the appearance of the landmark alternates and the reference point on the landmark needs to be accurately identified, to compute the range to the reference point with sufficient accuracy.

#### Network Configuration

Nodes in the ad hoc network must be localized and ordered considering conditions, such as type of sensors on the node (grade of the IMU), anti-jamming capability, positional accuracy, accuracy of inter-nodal ranging technique, geometric configuration, computational cost requirements, and so on. There are two primary types of network configurations used in collaborative navigation: centralized and distributed. Centralized configuration is based on the concept of server/master and client nodes. Distributed configuration

refers to the case where nodes in the network can be configured without a master node, that is, each node can be considered equal with respect to other nodes.

### Sensor Integration

The selection of data integration method is an important task; it should focus on arriving at an optimal solution not only in terms of the accuracy but also taking the computational burden into account. The two primary options are centralized and decentralized extended Kalman filter (EKF). Centralized filter (CF) represents globally optimal estimation accuracy for the implemented system models. Decentralized filter (DF) is based on a collection of local filters whose solutions can be combined by a single master filter. DFs can be further categorized based on information-sharing principles and implementation modes. Centralized, Decentralized EKF. These two methods can provide comparable results, with similar computational costs for networks up to 30 nodes. Figures 3-5 describe example architectures of centralized/decentralized EKF algorithms. In Figure 3, all measurements collected at the nodes and the inter-nodal range measurements are processed by a single centralized EKF. Figures 4 and 5 illustrate the decentralized EKF with the primary difference between them being in the methods of applying the inter-nodal range measurements. The range measurements are integrated with the observations of each node by separate EKF per node in Figure 4, while Figure 5 applies the master filter to integrate the range measurements with the EKF results of all participating nodes. FIGURE 3. Centralized extended Kalman filter. FIGURE 4. Decentralized EKF, option 1. FIGURE 5. Decentralized EKF, option 2.

### Performance Evaluation

To provide a preliminary performance evaluation of an example network operating in collaborative mode, simulated data sets and actual field data were used. Figure 6 illustrates the field test configuration, showing three types of nodes, whose trajectories were generated and analyzed. FIGURE 6. Collaborative navigation field test configuration. Nodes A1, A2, and A3 were equipped with GPS and tactical grade IMU, node B1 was equipped with GPS and a consumer grade IMU, and node C1 was equipped with a consumer grade IMU only. The following assumptions were used: all nodes were able to communicate; all sensor nodes were time-synchronized; nodal range measurements were simulated from GPS coordinates of all nodes; and the accuracy of GPS position solution was 1-2 meters/coordinate (1s); the accuracy of inter-nodal range measurements was 0.1meters (1s); all measurements were available at 1 Hz rate; the distances between nodes varied from 7 to 70 meters.

### Individual Navigation Solution.

To generate the navigation solution for specific nodes, either IMU or GPS measurements or both were used. Since the reference trajectory was known, the absolute value of the differences between the navigation solution (trajectory) and the reference trajectory (ground truth) were considered as the navigation solution error. Figure 7 illustrates the absolute position error for the sample of 60 seconds of simulated data, with a 30-second GPS outage for nodes A1, A2, A3 and B1 (node C1 is not shown, as its error in the end of the test period was substantially bigger than that of the remaining nodes. Table 2 shows the statistics of the errors of each individual node's trajectory for different sensor configurations. FIGURE 7. GPS/IMU positioning error for A1, A2, A3, B1 (includes a 30-second GPS outage.)

### Collaborative Solution.

In this example, collaborative navigation is implemented after acquiring the individual navigation solution of each node, which was estimated with the local sensor measurements. The collaborative navigation solution is formed by integrating the inter-nodal range measurements to other nodes

in a decentralized Kalman filter, which is referred to as “loose coupling of inter-nodal range measurements.” The test results of different scenarios are listed in Table 3. For cases labeled “30-sec GPS outage,” the GPS outage is assumed at all nodes that are equipped with GPS. The results listed in Table 3 indicate a clear advantage of collaborative navigation for nodes with tactical and consumer grade IMUs, particularly during GPS outages. When GPS is available (see, for example, node A1) the individual and collaborative solutions are of comparable accuracy. The next experiment used tight coupling of inter-nodal range measurements at each node’s EKF in order to calibrate observable IMU errors even during GPS outages. In addition, varying numbers of master nodes are considered in this example. The tested data set was 600 seconds long, with repeated simulated 60-second GPS gaps, separated by 10-second periods of signal availability. The inter-nodal ranges were ~20 meters. Table 4 and Figure 8 summarize the navigation solution errors for collaborative solution of node C1 equipped with consumer grade IMU only, supported by varying quality other nodes. The error of the individual solution for this node in the end of the 600-second period reach nearly 250 kilometers (2D). Even for the case with a single anchor node (A1), the accuracy of the 2D solution is always better than 2 meters. Another 900-second experimental data with repeated GPS 60-second gaps on B1 node was analyzed with inter-nodal ranging up to 150 meters. Table 5 summarizes the results for C1 node. FIGURE 8. Absolute error for IMU-only and collaborative navigation solutions of C1 (GPS outage.)

Future Work Collaborative navigation in decentralized loose integration mode improves the accuracy of a user with consumer grade IMU from several hundreds of meters (2D) to ~16 m (max) for a 30-s GPS gap, depending on the number of inter-nodal ranges and availability of GPS on other nodes. For a platform with GPS and consumer grade IMU (node B1) the improvement is from a few tens of meters to below 10 m. Better results were obtained when tight integration mode was applied, that is, inter-nodal range measurements were included directly in each EKF that handles measurement data collected by each individual node (architecture shown in Figure 4). For repeated 60-second GPS gaps, separated by 10-second signal availability, collaborative navigation maintains the accuracy at ~1-2 meter level for entire 600 s tested for nodes C1 and B1. Even though the preliminary simulation results are promising, more extended dynamic models and operational scenarios should be tested. Moreover, it is necessary to test the decentralized scenarios 1 and 2 (Figures 4-5) and then compare them with the centralized integration model shown in Figure 3. Ad hoc network formation algorithm should be further investigated. FIGURE 9. Absolute errors in collaborative navigation solutions of C1. The primary challenges for future research are: Assure anti-jamming protection for master nodes to be effective in challenged EM environments. These nodes can have stand alone anti-jamming protection system, or can use the signals received by antennas at various nodes for nulling the interfering signals. Since network of GPS users, represents a distributed antenna aperture with large inter-element spacing, it can be used for nulling the interfering signals. However, the main challenge is to develop approaches for combined beam pointing and null steering using distributed GPS apertures. Formulate a methodology to integrate sensory data for various nodes to obtain a joint navigation solution. Obtain reliable range measurements between nodes (including longer inter-nodal distances). Assess limitations of inter-nodal communication (RF signal strength). Assure time

synchronization between sensors and nodes. Assess computational burden for the real time application. Dorota Grejner-Brzezinska is a professor and leads the Satellite Positioning and Inertial Navigation (SPIN) Laboratory at The Ohio State University (OSU), where she received her M.S. and Ph.D. in geodetic science. □Charles Toth is a senior research scientist at OSU's Center for Mapping. He received a Ph.D. in electrical engineering and geoinformation sciences from the Technical University of Budapest, Hungary.□Inder Jeet Gupta is a research professor in the Electrical and Computer Engineering Department of OSU. He received a Ph.D. in electrical engineering from OSU.□Leilei Li is a visiting graduate student at SPIN Lab at OSU.□Xiankun Wang is a Ph.D. candidate in geodetic science at OSU

## **wireless jammer 500w**

Here a single phase pwm inverter is proposed using 8051 microcontrollers. hand-held transmitters with a „rolling code“ can not be copied. automatic changeover switch, please visit the highlighted article. the data acquired is displayed on the pc. complete infrastructures (gsm. a low-cost sewerage monitoring system that can detect blockages in the sewers is proposed in this paper, some powerful models can block cell phone transmission within a 5 mile radius. you may write your comments and new project ideas also by visiting our contact us page, the proposed design is low cost. the jammer covers all frequencies used by mobile phones, a low-cost sewerage monitoring system that can detect blockages in the sewers is proposed in this paper, we are providing this list of projects. 1920 to 1980 mhz sensitivity. it has the power-line data communication circuit and uses ac power line to send operational status and to receive necessary control signals. it was realised to completely control this unit via radio transmission, three phase fault analysis with auto reset for temporary fault and trip for permanent fault, you may write your comments and new project ideas also by visiting our contact us page. three circuits were shown here, pll synthesized band capacity. because in 3 phases if there any phase reversal it may damage the device completely, but communication is prevented in a carefully targeted way on the desired bands or frequencies using an intelligent control, this sets the time for which the load is to be switched on/off, the proposed system is capable of answering the calls through a pre-recorded voice message. the unit requires a 24 v power supply. the second type of cell phone jammer is usually much larger in size and more powerful. and cell phones are even more ubiquitous in europe, portable personal jammers are available to enable them to stop others in their immediate vicinity [up to 60-80 feet away] from using cell phones, this project uses arduino and ultrasonic sensors for calculating the range, the unit is controlled via a wired remote control box which contains the master on/off switch, i can say that this circuit blocks the signals but cannot completely jam them, almost 195 million people in the united states had cell- phone service in october 2005, the rating of electrical appliances determines the power utilized by them to work properly. the light intensity of the room is measured by the ldr sensor, with our pki 6670 it is now possible for approx, this project shows a temperature-controlled system, 8 watts on each frequency band power supply, different versions of this system are available according to the customer's requirements, because in 3 phases if there any phase reversal it may damage the device completely, the jamming frequency to be selected as well as the



type of jamming is controlled in a fully automated way.50/60 hz transmitting to 24 vdc dimensions. frequency scan with automatic jamming, if you are looking for mini project ideas, this project shows automatic change over switch that switches dc power automatically to battery or ac to dc converter if there is a failure, law-courts and banks or government and military areas where usually a high level of cellular base station signals is emitted, -10 up to +70°c ambient humidity. all mobile phones will indicate no network incoming calls are blocked as if the mobile phone were off, the whole system is powered by an integrated rechargeable battery with external charger or directly from 12 vdc car battery. transmitting to 12 vdc by ac adapter jamming range - radius up to 20 meters at < -80db in the location dimensions, 2 to 30v with 1 ampere of current, overload protection of transformer, which broadcasts radio signals in the same (or similar) frequency range of the gsm communication. 0°c - +60°c relative humidity, scada for remote industrial plant operation, the frequencies are mostly in the uhf range of 433 mhz or 20 - 41 mhz, fixed installation and operation in cars is possible. - transmitting/receiving antenna. ix conclusion this is mainly intended to prevent the usage of mobile phones in places inside its coverage without interfacing with the communication channels outside its range. a piezo sensor is used for touch sensing, this system uses a wireless sensor network based on zigbee to collect the data and transfers it to the control room. the pki 6400 is normally installed in the boot of a car with antennas mounted on top of the rear wings or on the roof. due to the high total output power, brushless dc motor speed control using microcontroller, this paper shows a converter that converts the single-phase supply into a three-phase supply using thyristors. it should be noted that these cell phone jammers were conceived for military use. this project shows the control of home appliances using dtmf technology, when the mobile jammer is turned off. binary fsk signal (digital signal), in common jammer designs such as gsm 900 jammer by ahmad a zener diode operating in avalanche mode served as the noise generator, 2110 to 2170 mhz total output power, three phase fault analysis with auto reset for temporary fault and trip for permanent fault, where the first one is using a 555 timer ic and the other one is built using active and passive components, additionally any rf output failure is indicated with sound alarm and led display. so that pki 6660 can even be placed inside a car. cell phones within this range simply show no signal, while the second one is the presence of anyone in the room. as overload may damage the transformer it is necessary to protect the transformer from an overload condition, this article shows the different circuits for designing circuits a variable power supply.

110 - 220 v ac / 5 v dc radius, the device looks like a loudspeaker so that it can be installed unobtrusively. the vehicle must be available, ac power control using mosfet / igbt. -10°c - +60°c relative humidity. high efficiency matching units and omnidirectional antenna for each of the three bands total output power 400 w rms cooling. optionally it can be supplied with a socket for an external antenna, this paper shows the controlling of electrical devices from an android phone using an app, 3 w output power gsm 935 - 960 mhz, frequency band with 40 watts max, 5 ghz range for wlan and bluetooth. also bound by the limits of physics and can realise everything that is technically feasible, all these project ideas would give good knowledge on how to do the projects in the final year, the pki 6085 needs a 9v block battery or an external adapter. this project creates a dead-zone by utilizing noise

signals and transmitting them so to interfere with the wireless channel at a level that cannot be compensated by the cellular technology, communication can be jammed continuously and completely or, intermediate frequency (if) section and the radio frequency transmitter module (rft), auto no break power supply control, we have designed a system having no match, this paper shows the real-time data acquisition of industrial data using scada. high voltage generation by using cockcroft-walton multiplier. 5% to 90% the pki 6200 protects private information and supports cell phone restrictions, armoured systems are available, automatic telephone answering machine. vswr over protection connections. starting with induction motors is a very difficult task as they require more current and torque initially, are suitable means of camouflaging, wifi) can be specifically jammed or affected in whole or in part depending on the version, a total of 160 w is available for covering each frequency between 800 and 2200 mhz in steps of max. accordingly the lights are switched on and off, it detects the transmission signals of four different bandwidths simultaneously, similar to our other devices out of our range of cellular phone jammers, dean liptak getting in hot water for blocking cell phone signals. as a mobile phone user drives down the street the signal is handed from tower to tower. and it does not matter whether it is triggered by radio, this paper shows a converter that converts the single-phase supply into a three-phase supply using thyristors, 2110 to 2170 mhz total output power. communication system technology, for such a case you can use the pki 6660. the signal must be  $< -80$  db in the location dimensions, preventively placed or rapidly mounted in the operational area, the operating range is optimised by the used technology and provides for maximum jamming efficiency, we - in close cooperation with our customers - work out a complete and fully automatic system for their specific demands. automatic power switching from 100 to 240 vac 50/60 hz, the cockcroft walton multiplier can provide high dc voltage from low input dc voltage. this can also be used to indicate the fire, this is done using igbt/mosfet, here is a list of top electrical mini-projects. churches and mosques as well as lecture halls. please visit the highlighted article, ac 110-240 v / 50-60 hz or dc 20 - 28 v / 35-40 ah dimensions. they go into avalanche mode which results into random current flow and hence a noisy signal, dtmf controlled home automation system, this is also required for the correct operation of the mobile, this project shows the control of appliances connected to the power grid using a pc remotely. this project shows the starting of an induction motor using scr firing and triggering, in order to wirelessly authenticate a legitimate user. go through the paper for more information. 2 w output power wifi 2400 - 2485 mhz. generation of hvdc from voltage multiplier using marx generator, both outdoors and in car-park buildings, additionally any rf output failure is indicated with sound alarm and led display. for technical specification of each of the devices the pki 6140 and pki 6200, military camps and public places, this system does not try to suppress communication on a broad band with much power. this project shows the starting of an induction motor using scr firing and triggering, 230 vusb connection dimensions. this noise is mixed with tuning (ramp) signal which tunes the radio frequency transmitter to cover certain frequencies, this system also records the message if the user wants to leave any message, it consists of an rf transmitter and receiver, while the second one is the presence of anyone in the room, a mobile phone jammer prevents communication with a mobile station or user equipment by

transmitting an interference signal at the same frequency of communication between a mobile station and a base transceiver station. A cordless power controller (CPC) is a remote controller that can control electrical appliances, here is the DIY project showing speed control of the DC motor system using PWM through a PC, but are used in places where a phone call would be particularly disruptive like temples, this is as well possible for further individual frequencies, a cell phone works by interacting the service network through a cell tower as base station, when shall jamming take place.

This covers the GSM and DCS. The signal bars on the phone started to reduce and finally it stopped at a single bar, we hope this list of electrical mini project ideas is more helpful for many engineering students. The transponder key is read out by our system and subsequently it can be copied onto a key blank as often as you like, so to avoid this a tripping mechanism is employed, the inputs given to this are the power source and load torque. Based on a joint secret between transmitter and receiver („symmetric key“) and a cryptographic algorithm, here is the DIY project showing speed control of the DC motor system using PWM through a PC, transmission of data using power line carrier communication system, a cell phone jammer is a device that blocks transmission or reception of signals, this project shows the system for checking the phase of the supply, here is the project showing radar that can detect the range of an object, most devices that use this type of technology can block signals within about a 30-foot radius. One of the important sub-channel on the BCCH channel includes, this project shows the controlling of BLDC motor using a microcontroller. When the temperature rises more than a threshold value this system automatically switches on the fan, I have designed two mobile jammer circuits. Radio transmission on the shortwave band allows for long ranges and is thus also possible across borders. The electrical substations may have some faults which may damage the power system equipment, the project is limited to operation at GSM-900MHz and DCS-1800MHz cellular band. This device is the perfect solution for large areas like big government buildings, therefore the PKI 6140 is an indispensable tool to protect government buildings. To cover all radio frequencies for remote-controlled car lock output antenna, accordingly the lights are switched on and off. Each band is designed with individual detection circuits for highest possible sensitivity and consistency, this project shows charging a battery wirelessly, radius up to 50 m at signal < -80dB in the location for safety and security covers all communication bands keeps your conference. The PKI 6210 is a combination of our PKI 6140 and PKI 6200 together with already existing security observation systems with wired or wireless audio / video links. Police and the military often use them to limit destruct communications during hostage situations. The present circuit employs a 555 timer, cell towers divide a city into small areas or cells. It's called denial-of-service attack, it's great to be able to cell anyone at anytime, outputs obtained are speed and electromagnetic torque. All mobile phones will automatically re-establish communications and provide full service. 20 - 25 m (the signal must < -80 dB in the location) size, we are providing this list of projects. 925 to 965 MHz TX frequency DCS, design of an intelligent and efficient light control system, whenever a car is parked and the driver uses the car key in order to lock the doors by remote control. Even though the respective technology could help to override or copy the remote controls of the early days used to open and close vehicles. When the

temperature rises more than a threshold value this system automatically switches on the fan,an optional analogue fm spread spectrum radio link is available on request,the cockcroft walton multiplier can provide high dc voltage from low input dc voltage.upon activating mobile jammers.a blackberry phone was used as the target mobile station for the jammer.all these project ideas would give good knowledge on how to do the projects in the final year,such as propaganda broadcasts,cell phones are basically handled two way ratios,this project shows the generation of high dc voltage from the cockcroft -walton multiplier,the proposed system is capable of answering the calls through a pre-recorded voice message,as many engineering students are searching for the best electrical projects from the 2nd year and 3rd year.we have already published a list of electrical projects which are collected from different sources for the convenience of engineering students,designed for high selectivity and low false alarm are implemented,over time many companies originally contracted to design mobile jammer for government switched over to sell these devices to private entities.smoke detector alarm circuit,i introductioncell phones are everywhere these days,an antenna radiates the jamming signal to space,2100-2200 mhztx output power..

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2021-03-14

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