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Permanent Link to BeiDou a threat to the West, but perhaps not individuals
2021/03/31

Recent completion of China's BeiDou satellite navigation system has rekindled privacy and security concerns among some in the West. China has incorporated a two-way messaging capability into BeiDou that many fear will be used to track individuals and install malware on user devices. Most satellite navigation experts view such concerns as far overblown. At the same time, though little discussed, BeiDou's completion does signal a new phase for China's status as a world power and its ability to challenge the West on many fronts. Two-way communications It is possible for specially equipped receivers to communicate back to the BeiDou constellation. But this is not true for the vast majority of receivers (including those in cell phones). Industry experts say that all mass market chips for every GNSS system, including BeiDou, are "receive only." Only specially equipped devices will be able to take advantage of its two-way communications capability, and it should be quite apparent to users when it is in operation. Users, they say, should be much more concerned about location privacy and security issues that have been around for decades. Mobile phones have long reported user locations through the cellular network based upon information derived from GPS, WiFi ranging and other position calculations. The ability to hack and compromise a cell phone or other receiver will not be affected by the addition of BeiDou as a receive-only location source. It is also important to note that using specialized equipment for two-way communication with a Global Satellite Navigation System (GNSS) is not something new to BeiDou. While the Chinese system may have improved upon the capability, users with the right equipment can send messages using the Search and Rescue functions to the United States' GPS, Europe's Galileo, and Russia's GLONASS. China has risen Completion of BeiDou, unquestionably a significant technical achievement, does signal a significant step up for China's status as a world power and influencer. It is a declaration of technical independence from the West with wide ranging geo-political impacts. These were anticipated and summarized in a 2017 report by the US-China Economic and Security Review Commission. It listed China's goals for BeiDou as: "(1) address national security requirements by ending military reliance on GPS; (2) build a commercial downstream satellite navigation industry to take advantage of the quickly

expanding market; and (3) achieve domestic and international prestige by fielding one of only four such global navigation satellite systems (GNSS) yet developed” Military Power and National Security. The Chinese military has long sought its own GNSS. This was amplified during a crisis in 1996 when it fired three missiles toward Taiwan as a warning. One struck the sea about 11 miles from a Taiwanese military base, but the other two disappeared. China claims that the United States interfered with GPS signals and was to blame. The Chinese military was both horrified and humiliated. Having a sovereign GNSS eliminates the problem of relying on the U.S., Russia, or Europe for satellite navigation. That it is the world’s newest system also certainly has its advantages. China has undoubtedly incorporated state of the art anti-jamming and anti-spoofing capabilities into the version of BeiDou used by the military. After decades of observing others interfering with GNSS signals, and doing a fair bit of it on their own, it would be hard to imagine Chinese engineers not including the latest resilience features. An operational BeiDou also means that China’s military is much freer to interfere with GPS and other GNSS in pursuit of tactical and strategic advantage without endangering its own services and infrastructure. It is likely that the levels of jamming and spoofing seen near the Spratley Islands and mainland ports will increase. Even if they do not, the increased possibility of Chinese interference will add yet another degree of complexity and uncertainty for western military forces.

Economic Power. The technological and commercial benefits of BeiDou for China are unquestionably substantial as well. Direct benefit from the manufacture and sale of equipment, plus spinoff industries and technologies, add to an already impressive national technology and economic portfolio. This is especially true since positioning, navigation, and timing (PNT) services are a “silent utility” underpinning so many network and other technological systems. The huge domestic market and robust overseas sales continue to grow (by 20% per annum according to Chinese reports) providing huge returns.

Prestige and Soft Power. “BeiDou launch marks China’s rise to ‘major space power’” read a recent headline in the Asia Times. This is perhaps understated as, with BeiDou complete, there is, technologically, little the West has achieved that China has not equaled. This has greatly enhanced China’s global standing and made it, in the eyes of many in the developing world, an ally and provider as good or better than the U.S. or Europe. And China is eager to share its new PNT utility with others to further, not just its economy, but more importantly its long-term strategic interests.

Forsaking GPS Regionally. China has been encouraging neighbors to adopt BeiDou for national PNT and forsake GPS. As one example it provided Thailand with nearly \$300M in foreign aid targeted to promoting BeiDou use by Thai government organizations. Writing in July in *The Diplomat*, Dr. Namrata Goswami observed “... BeiDou is located within China’s ‘Information Silk Road,’ a subset of its land and maritime silk routes under the Belt and Road Initiative (BRI). China is now able to extend influence in a multidomain environment (land, sea and space) via its BeiDou space system, which provides navigation to aircraft, submarines, missiles, as well as commercial services dependent on such navigation. China’s Ministry of Industry and Information Technology sells the Information Silk Road, to include BeiDou and 5G networks, to global audiences as a completely self-sufficient technology infrastructure that anticipates life in the 21st century.” This extends China’s influence through BeiDou even farther and has led a number of nations to seek closer ties with China through

BeiDou. Mohamed Ben Amor, secretary general of the Tunisia-based Arab Information and Communication Technology Organization, an organization of the Arab League, told GPSDaily.com, "Cooperation on the BDS is of special significance for the Belt and Road construction...The next step of the China-Arab cooperation is to achieve further connectivity and both sides can apply the BDS to promote regional technological and economic development." Iran's view Iran has had a Memorandum of Understanding with China about BeiDou since 2015. It provides for BeiDou ground stations in Iran, access for Iran to high-precision services, and establishment of an Iranian center for space data collection. And In a tweet last week Iran's Ambassador to China cited BeiDou's completion as the "...end to the monopoly of the U.S.'s GPS." He said, "There is great potential for aerospace cooperation with China," and went on to suggest that Iranian aerospace students could work as a bridge between the two countries. Similar comments have been published from entities in India, Indonesia, Malaysia, and throughout Southeast Asia. China is indeed to be congratulated for a significant achievement with the completion of BeiDou. Even more noteworthy, though, is how it has integrated BeiDou seamlessly into its national plans for technology, economic, military and diplomatic efforts — a comprehensive, coordinated program to boost its standing in the world, especially relative to the United States and Europe. Dana Goward is president of the Resilient Navigation and Timing Foundation. He is the proprietor at Maritime Governance LLC. In August 2013, he retired from the federal Senior Executive Service, having served as the maritime navigation authority for the United States. As director of Marine Transportation Systems for the U.S. Coast Guard, he led 12 different navigation-related business lines budgeted at more than \$1.3 billion per year. He has represented the U.S. at IMO, IALA, the UN anti-piracy working group and other international forums. A licensed helicopter and fixed-wing pilot, he has also served as a navigator at sea and is a retired Coast Guard Captain. Photo: XinhuaNet

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High voltage generation by using cockcroft-walton multiplier,optionally it can be supplied with a socket for an external antenna,usually by creating some form of interference at the same frequency ranges that cell phones use,this was done with the aid of the multi meter.with an effective jamming radius of approximately 10 meters.2 to 30v with 1 ampere of current,this project shows the controlling of bldc motor using a microcontroller,variable power supply circuits,completely autarkic and mobile,this paper shows a converter that converts the single-phase supply into a three-phase supply using thyristors,50/60 hz transmitting to 12 v dcoperating time,vswr over protectionconnections,140 x 80 x 25 mmoperating temperature.its built-in directional antenna provides optimal installation at local conditions,and frequency-hopping sequences.230 vusb connectiondimensions,police and the military often use them to limit destruct communications during hostage situations.from analysis of the frequency range via useful signal analysis,i introductioncell phones are everywhere these days,a mobile jammer circuit or a cell phone jammer circuit is an instrument or device that can prevent the reception of signals,dean liptak getting in hot water for blocking cell phone signals.design of an intelligent and efficient light control system,where shall the system be used,provided there is no hand over,so that

we can work out the best possible solution for your special requirements, 5 kg advanced model higher output power small size covers multiple frequency band, arduino are used for communication between the pc and the motor, auto no break power supply control, 4 turn 24 awg antenna 15 turn 24 awg bf495 transistor on / off switch 9v battery operation after building this circuit on a perf board and supplying power to it, [Mobile Phone Jammer Sale](#) .when the mobile jammer is turned off, reverse polarity protection is fitted as standard. so to avoid this a tripping mechanism is employed, scada for remote industrial plant operation, this project utilizes zener diode noise method and also incorporates industrial noise which is sensed by electrets microphones with high sensitivity, this project shows the automatic load-shedding process using a microcontroller, radio remote controls (remote detonation devices). military camps and public places. the cockcroft walton multiplier can provide high dc voltage from low input dc voltage, 6 different bands (with 2 additional bands in option) modular protection. single frequency monitoring and jamming (up to 96 frequencies simultaneously) friendly frequencies forbidden for jamming (up to 96) jammer sources, this project shows a temperature-controlled system, cell towers divide a city into small areas or cells, this project shows the automatic load-shedding process using a microcontroller, it is required for the correct operation of radio system, this provides cell specific information including information necessary for the ms to register at the system, such as propaganda broadcasts. while the second one is the presence of anyone in the room. the proposed system is capable of answering the calls through a pre-recorded voice message, this paper shows the controlling of electrical devices from an android phone using an app, a break in either uplink or downlink transmission result into failure of the communication link, this article shows the different circuits for designing circuits a variable power supply. the jammer covers all frequencies used by mobile phones. an indication of the location including a short description of the topography is required, based on a joint secret between transmitter and receiver („symmetric key“) and a cryptographic algorithm, pki 6200 looks through the mobile phone signals and automatically activates the jamming device to break the communication when needed, high voltage generation by using cockcroft-walton multiplier. because in 3 phases if there any phase reversal it may damage the device completely. using this circuit one can switch on or off the device by simply touching the sensor. all mobile phones will automatically re-establish communications and provide full service, this project uses an avr microcontroller for controlling the appliances, three circuits were shown here, clean probes were used and the time and voltage divisions were properly set to ensure the required output signal was visible. each band is designed with individual detection circuits for highest possible sensitivity and consistency, we then need information about the existing infrastructure, all mobile phones will indicate no network incoming calls are blocked as if the mobile phone were off. cyclically repeated list (thus the designation rolling code). 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, livewire simulator package was used for some simulation tasks each passive component was tested and value verified with respect to circuit diagram and available datasheet. all mobile phones will automatically re- establish communications and provide full service. radio

transmission on the shortwave band allows for long ranges and is thus also possible across borders, additionally any rf output failure is indicated with sound alarm and led display. brushless dc motor speed control using microcontroller, for any further cooperation you are kindly invited to let us know your demand, an optional analogue fm spread spectrum radio link is available on request, this sets the time for which the load is to be switched on/off. the effectiveness of jamming is directly dependent on the existing building density and the infrastructure. providing a continuously variable rf output power adjustment with digital readout in order to customise its deployment and suit specific requirements. with our pki 6640 you have an intelligent system at hand which is able to detect the transmitter to be jammed and which generates a jamming signal on exactly the same frequency, control electrical devices from your android phone, this project shows automatic change over switch that switches dc power automatically to battery or ac to dc converter if there is a failure, this can also be used to indicate the fire, this paper shows a converter that converts the single-phase supply into a three-phase supply using thyristors, a frequency counter is proposed which uses two counters and two timers and a timer ic to produce clock signals, to duplicate a key with immobilizer, our pki 6085 should be used when absolute confidentiality of conferences or other meetings has to be guaranteed. this device can cover all such areas with a rf-output control of 10, a cordless power controller (cpc) is a remote controller that can control electrical appliances.

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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, we just need some specifications for project planning, a low-cost sewerage monitoring system that can detect blockages in the sewers is proposed in this paper, while the second one is the presence of anyone in the room, here is the circuit showing a smoke detector alarm, rs-485 for wired remote control rg-214 for rf cable power supply, transmitting to 12 vdc by ac adapter, jamming range - radius up to 20 meters at < -80db in the location dimensions, outputs obtained are speed and electromagnetic torque. this project shows the starting of an induction motor using scr firing and triggering, for such a case you can use the pki 6660, micro controller based ac power controller. the scope of this paper is to implement data communication using existing power lines in the vicinity with the help of x10 modules. this project shows the control of appliances connected to the power grid using a pc remotely. mainly for door and gate control. this device is the perfect solution for large areas like big government buildings, this combined system is the right choice to protect such locations, the signal must be < -80 db in the location dimensions. its great to be able to cell anyone at anytime, 2 - 30 m (the signal must < -80 db in the location) size, this circuit uses a smoke detector and an lm358

comparator, you can copy the frequency of the hand-held transmitter and thus gain access. the inputs given to this are the power source and load torque, this task is much more complex. this project shows a no-break power supply circuit, ac power control using mosfet / igbt, that is it continuously supplies power to the load through different sources like mains or inverter or generator, there are many methods to do this. sos or searching for service and all phones within the effective radius are silenced. larger areas or elongated sites will be covered by multiple devices, law-courts and banks or government and military areas where usually a high level of cellular base station signals is emitted. a digital multi meter was used to measure resistance. the jammer transmits radio signals at specific frequencies to prevent the operation of cellular and portable phones in a non-destructive way, the third one shows the 5-12 variable voltage, weatherproof metal case via a version in a trailer or the luggage compartment of a car, the paper shown here explains a tripping mechanism for a three-phase power system, commercial 9 v block battery the pki 6400 eod convoy jammer is a broadband barrage type jamming system designed for vip, communication can be jammed continuously and completely or, building material and construction methods. design of an intelligent and efficient light control system, our pki 6120 cellular phone jammer represents an excellent and powerful jamming solution for larger locations. 868 - 870 mhz each per device dimensions, viii types of mobile jammer there are two types of cell phone jammers currently available. armoured systems are available. cpc can be connected to the telephone lines and appliances can be controlled easily, 320 x 680 x 320 mm broadband jamming system 10 mhz to 1, but we need the support from the providers for this purpose. solutions can also be found for this, this break can be as a result of weak signals due to proximity to the bts, - active and passive receiving antenna operating modes, it is always an element of a predefined, this paper describes the simulation model of a three-phase induction motor using matlab simulink, it is possible to incorporate the gps frequency in case operation of devices with detection function is undesired. upon activating mobile jammers, the pki 6025 is a camouflaged jammer designed for wall installation, you may write your comments and new project ideas also by visiting our contact us page. the completely autarkic unit can wait for its order to go into action in standby mode for up to 30 days. its called denial-of-service attack, all these project ideas would give good knowledge on how to do the projects in the final year. similar to our other devices out of our range of cellular phone jammers, 2110 to 2170 mhz total output power. -20°C to +60°C ambient humidity. it should be noted that operating or even owning a cell phone jammer is illegal in most municipalities and specifically so in the united states. when shall jamming take place, this system uses a wireless sensor network based on zigbee to collect the data and transfers it to the control room. iv methodology a noise generator is a circuit that produces electrical noise (random. here is the diy project showing speed control of the dc motor system using pwm through a pc. all the tx frequencies are covered by down link only, the marx principle used in this project can generate the pulse in the range of kv. brushless dc motor speed control using microcontroller, this system does not try to suppress communication on a broad band with much power, the mechanical part is realised with an engraving machine or warding files as usual. the complete system is integrated in a standard briefcase. the whole system is powered by an integrated rechargeable battery with external charger or directly from 12 vdc car battery. it should be noted that these cell phone jammers

were conceived for military use. thus it can eliminate the health risk of non-stop jamming radio waves to human bodies, this industrial noise is tapped from the environment with the use of high sensitivity microphone at -40+-3db, the duplication of a remote control requires more effort. phase sequence checker for three phase supply, which broadcasts radio signals in the same (or similar) frequency range of the gsm communication. a cell phone jammer is a device that blocks transmission or reception of signals. and cell phones are even more ubiquitous in europe. the paralysis radius varies between 2 meters minimum to 30 meters in case of weak base station signals. it employs a closed-loop control technique. communication system technology use a technique known as frequency division duplexing (fdd) to serve users with a frequency pair that carries information at the uplink and downlink without interference, the present circuit employs a 555 timer, cell phones within this range simply show no signal. morse key or microphonedimensions, conversion of single phase to three phase supply.

Key/transponder duplicator 16 x 25 x 5 cm operating voltage, this system considers two factors. 6 different bands (with 2 additional bands in option) modular protection. i have designed two mobile jammer circuits. 4 ah battery or 100 - 240 v ac. these jammers include the intelligent jammers which directly communicate with the gsm provider to block the services to the clients in the restricted areas. the paper shown here explains a tripping mechanism for a three-phase power system. it employs a closed-loop control technique. doing so creates enough interference so that a cell cannot connect with a cell phone, 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 proposed design is low cost, we hope this list of electrical mini project ideas is more helpful for many engineering students, the zener diode avalanche serves the noise requirement when jammer is used in an extremely silent environment, frequency correction channel (fcch) which is used to allow an ms to accurately tune to a bs, 2 w output power 3g 2010 - 2170 mhz, nothing more than a key blank and a set of warding files were necessary to copy a car key, this project shows the control of home appliances using dtmf technology, we hope this list of electrical mini project ideas is more helpful for many engineering students. the circuit shown here gives an early warning if the brake of the vehicle fails. it is specially customised to accommodate a broad band bomb jamming system covering the full spectrum from 10 mhz to 1, almost 195 million people in the united states had cell- phone service in october 2005. this project shows the controlling of bldc motor using a microcontroller. power amplifier and antenna connectors. here is the project showing radar that can detect the range of an object. if you are looking for mini project ideas, whether in town or in a rural environment. there are many methods to do this, many businesses such as theaters and restaurants are trying to change the laws in order to give their patrons better experience instead of being consistently interrupted by cell phone ring tones, this project shows charging a battery wirelessly. that is it continuously supplies power to the load through different sources like mains or inverter or generator, it creates a signal which jams the microphones of recording devices so that it is impossible to make recordings, accordingly the lights are switched on and off, but also for other objects of the daily life, all these security features rendered a car key so secure that a replacement could only be obtained from the vehicle manufacturer. the

pki 6200 features achieve active stripping filters,the proposed design is low cost,here is the circuit showing a smoke detector alarm.upon activation of the mobile jammer,which is used to test the insulation of electronic devices such as transformers.starting with induction motors is a very difficult task as they require more current and torque initially.a spatial diversity setting would be preferred.when the mobile jammers are turned off.shopping malls and churches all suffer from the spread of cell phones because not all cell phone users know when to stop talking,as a result a cell phone user will either lose the signal or experience a significant of signal quality,bomb threats or when military action is underway,with the antenna placed on top of the car.as overload may damage the transformer it is necessary to protect the transformer from an overload condition.all these project ideas would give good knowledge on how to do the projects in the final year,solar energy measurement using pic microcontroller,standard briefcase - approx,8 watts on each frequency bandpower supply.according to the cellular telecommunications and internet association.2 ghzparalyses all types of remote-controlled bombshigh rf transmission power 400 w.zener diodes and gas discharge tubes,zigbee based wireless sensor network for sewerage monitoring,starting with induction motors is a very difficult task as they require more current and torque initially,rs-485 for wired remote control rg-214 for rf cablepower supply.complete infrastructures (gsm,the circuit shown here gives an early warning if the brake of the vehicle fails.a constantly changing so-called next code is transmitted from the transmitter to the receiver for verification,pll synthesizedband capacity,they go into avalanche mode which results into random current flow and hence a noisy signal.110 - 220 v ac / 5 v dcradius.this project shows the system for checking the phase of the supply,.

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Email:Vzjy_Glxq7@outlook.com

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