

# Enchanted Objects Design Human Desire And The Internet Of Things David Rose

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Enchanted Objects Design Human Desire And The Internet Of Things David Rose Enchanted Objects Design Human Desire and the Internet of Things David Roses Vision Meta Explore David Roses influential concept of enchanted objects and how they leverage human desire to shape the future of the Internet of Things IoT Learn design principles actionable advice and realworld examples Enchanted objects David Rose Internet of Things IoT design thinking humancentered design user experience UX persuasive technology product design emotional design ambient intelligence smart home future of technology David Roses seminal work on enchanted objects profoundly impacted our understanding of the Internet of Things IoT Instead of focusing solely on technological prowess Rose emphasizes the crucial role of design in weaving technology seamlessly into our lives creating experiences that resonate with our deepest desires and emotions This article delves into Roses philosophy exploring how designers can leverage this understanding to create truly impactful and desirable IoT products Beyond Functionality The Essence of Enchanted Objects Rose argues that the success of IoT devices hinges not merely on functionality but on their ability to enchant to evoke wonder delight and emotional connection This enchantment stems from a thoughtful consideration of human psychology and a deep understanding of how we interact with the world He proposes that truly enchanted objects possess several key characteristics Embodied Interaction Enchanted objects are not just passive recipients of commands they actively participate in the interaction often through subtle cues and feedback Think of a smart home lighting system that subtly adjusts to the time of day or a fitness tracker that vibrates encouragingly during a workout Emotional Resonance Successful IoT devices tap into our emotions creating positive associations and fostering a sense of companionship This could be a smart speaker that plays comforting music or a smart pet feeder that reassures pet owners about their furry 2 friends wellbeing Intuitive Design The user experience is paramount Enchanted objects should be easy to use requiring minimal cognitive load A welldesigned smart thermostat for instance should be simple to operate and understand regardless of the users technical expertise Contextual Awareness Enchanted objects are sensitive to their environment and adapt accordingly A smart umbrella for example might alert the user to impending rain based on weather data Subtlety and Surprise Enchantment often lies in the unexpected Small moments of delight subtle animations or unexpected functionalities can significantly enhance the user experience Consider a smart coffee maker that gently illuminates as it brews signifying the start of a new day Statistics and Expert Opinions According to a Statista report the global IoT market is projected to reach trillions of dollars by 2025 However many IoT devices fail to gain traction due to poor design and a lack of user engagement This highlights the critical need for designers to embrace Roses principles of enchantment Don Norman a renowned expert in humancomputer interaction echoes Roses sentiment emphasizing the importance of emotional design in creating successful products He argues that users are more likely to engage with products that evoke positive emotions RealWorld Examples of Enchanted Objects Amazon Echo Alexa While not perfect Alexas conversational interface and ability to respond to various requests creates a sense of

interaction and engagement Its capacity for entertainment and assistance adds to its enchantment Philips Hue Lighting System This system allows users to customize their home lighting to suit their mood and environment creating an immersive and personalized experience Nest Learning Thermostat The Nest thermostat learns user preferences and adjusts accordingly offering comfort and convenience Its elegant design and ease of use further enhance its appeal Actionable Advice for Designers 1 Emphasize User Research Conduct thorough user research to understand the needs desires and pain points of your target audience This will help you design products that genuinely resonate with them 3 2 Prioritize Emotional Design Incorporate emotional considerations into every stage of the design process Consider how your product will make users feel and how you can leverage emotions to enhance engagement 3 Focus on Seamless Integration Design your IoT devices to seamlessly integrate into users existing routines and environments Avoid creating disruptive or overly complicated experiences 4 Iterate and Refine Continuous testing and iteration are crucial to achieving enchantment Gather user feedback and use it to refine your design ensuring that it meets the needs and expectations of your target audience 5 Embrace Subtlety Dont overwhelm users with features Focus on creating meaningful experiences through subtle interactions and unexpected moments of delight Powerful David Roses concept of enchanted objects provides a crucial framework for designing successful IoT products By focusing on human desire emotional connection and intuitive design designers can create devices that are not just functional but truly enchanting This requires a shift in mindset prioritizing user experience and emotional resonance over mere technological prowess By embracing Roses principles designers can unlock the true potential of the Internet of Things and create a future where technology seamlessly integrates with our lives enriching our experiences and enhancing our wellbeing Frequently Asked Questions FAQs Q1 What is the difference between a smart object and an enchanted object A1 While all enchanted objects are smart not all smart objects are enchanted Smart objects focus primarily on functionality and data collection Enchanted objects on the other hand go beyond mere functionality emphasizing emotional resonance intuitive interaction and an overall engaging user experience They aim to create a sense of wonder and delight Q2 How can I ensure my IoT product evokes emotional resonance A2 Understanding your target audiences emotional needs is key Consider incorporating design elements that evoke positive emotions such as using pleasing aesthetics providing personalized experiences creating a sense of accomplishment or ease or employing gentle sounds and haptic feedback Q3 What are the potential ethical considerations of designing enchanted objects 4 A3 Designing enchanted objects requires careful consideration of potential ethical implications For instance the persuasive power of these objects could be exploited for manipulative purposes Transparency user control and data privacy should be prioritized Designing for responsible use is paramount Q4 How can I incorporate subtlety and surprise into my IoT products design A4 Subtlety and surprise can be incorporated through unexpected animations personalized notifications or small delightful functionalities that go beyond the core functionality Think about hidden features or contextual cues that reveal themselves over time or in specific situations Q5 What role does storytelling play in the design of enchanted objects A5 Storytelling is critical Enchanted objects are not just tools theyre often part of a narrative They can contribute to a personalized story whether its the story of a homes ambiance a users fitness journey or a familys daily routine The product itself becomes a character in that narrative enhancing its perceived value and emotional connection

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internet of things iot refers to physical and virtual objects that have unique identities and are connected to the internet to facilitate intelligent applications that make energy logistics industrial control retail agriculture and many other domains smarter internet of things is a new revolution of the internet that is rapidly gathering momentum driven by the advancements in sensor networks mobile devices wireless communications networking and cloud technologies experts forecast that by the year 2020 there will be a total of 50 billion devices things connected to the internet this book is written as a textbook on internet of things for educational programs at colleges and universities and also for iot vendors and service providers who may be interested in offering a broader perspective of internet of things to accompany their own customer and developer training programs the typical reader is expected to have completed a couple of courses in programming using traditional high level languages at the college level and is either a senior or a beginning graduate student in one of the science technology engineering or mathematics stem fields like our companion book on cloud computing we have tried to write a comprehensive book that transfers knowledge through an immersive hands on approach where the reader is provided the necessary guidance and knowledge to develop working code for real world iot applications additional support is available at the book's website [internet of things book com](http://internetofthingsbook.com) organization the book is organized into 3 main parts comprising of a total of 11 chapters part i covers the building blocks of internet of things iots and their characteristics a taxonomy of iot systems is proposed comprising of various iot levels with increasing levels of complexity domain specific internet of things and their real world

applications are described a generic design methodology for iot is proposed an iot system management approach using netconf yang is described part ii introduces the reader to the programming aspects of internet of things with a view towards rapid prototyping of complex iot applications we chose python as the primary programming language for this book and an introduction to python is also included within the text to bring readers to a common level of expertise we describe packages frameworks and cloud services including the wamp autobahn xively cloud and amazon services which can be used for developing iot systems we chose the raspberry pi device for the examples in this book reference architectures for different levels of iot applications are examined in detail case studies with complete source code for various iot domains including home automation smart environment smart cities logistics retail smart energy smart agriculture industrial control and smart health are described part iii introduces the reader to advanced topics on iot including iot data analytics and tools for iot case studies on collecting and analyzing data generated by internet of things in the cloud are described

a compelling argument that the internet of things threatens human rights and security sobering and important financial times best books of 2020 technology the internet has leapt from human facing display screens into the material objects all around us in this so called internet of things connecting everything from cars to cardiac monitors to home appliances there is no longer a meaningful distinction between physical and virtual worlds everything is connected the social and economic benefits are tremendous but there is a downside an outage in cyberspace can result not only in loss of communication but also potentially in loss of life control of this infrastructure has become a proxy for political power since countries can easily reach across borders to disrupt real world systems laura denardis argues that the diffusion of the internet into the physical world radically escalates governance concerns around privacy discrimination human safety democracy and national security and she offers new cyber policy solutions in her discussion she makes visible the sinews of power already embedded in our technology and explores how hidden technical governance arrangements will become the constitution of our future

although the internet of things iot is a vast and dynamic territory that is evolving rapidly there has been a need for a book that offers a holistic view of the technologies and applications of the entire iot spectrum filling this void the internet of things in the cloud a middleware perspective provides a comprehensive introduction to the iot and its development worldwide it gives you a panoramic view of the iot landscape focusing on the overall technological architecture and design of a tentatively unified iot framework underpinned by cloud computing from a middleware perspective organized into three sections it describes the many facets of internet of things including the four pillars of iot and the three layer value chain of iot focuses on middleware the glue and building blocks of a holistic iot system on every layer of the architecture explores cloud computing and iot as well as their synergy based on the common background of distributed processing the book is based on the author s two previous bestselling books in chinese on iot and cloud computing and more than two decades of hands on software middleware programming and architecting experience at organizations such as the oak ridge national laboratory ibm bea systems and silicon valley startup doubletwist tapping into this wealth of knowledge the book categorizes the many facets of the iot and proposes a number of paradigms and classifications about internet of things mass and niche markets and technologies

the widespread availability of technologies has increased exponentially in recent years this ubiquity has created more connectivity and seamless integration among technology devices emerging trends and applications of the internet of things is an essential reference publication featuring the latest scholarly research on the surge of connectivity between computing devices in modern society as well as the benefits and challenges of this featuring extensive coverage on a broad range of topics such as cloud computing spatial cognition and ultrasonic sensing this book is ideally designed for researchers professionals and academicians seeking current research on upcoming advances in the internet of things iot

learn more about foundational and advanced topics in internet of things technology with this all in one guide enabling the internet of things fundamentals design and applications delivers a comprehensive starting point for anyone hoping to understand the fundamentals and design of internet of things iot systems the book s distinguished academics and authors offer readers an opportunity to understand iot concepts via programming in an abstract way readers will learn about iot fundamentals hardware and software components iot protocol stacks security iot applications and implementations as well as the challenges and potential solutions that lie ahead readers will learn about the social aspects of iot systems as well as receive an introduction to the blockly programming language iot microcontrollers iot microprocessors systems on a chip and iot gateway architecture the book also provides implementation of simple code examples in packet tracer increasing the usefulness and practicality of the book enabling the internet of things examines a wide variety of other essential topics including the fundamentals of iot including its evolution distinctions definitions vision enabling technologies and building blocks an elaboration of the sensing principles of iot and the essentials of wireless sensor networks a detailed examination of the iot protocol stack for communications an analysis of the security challenges and threats faced by users of iot devices as well as the countermeasures that can be used to fight them from the perception layer to the application layer perfect as a supplementary text for undergraduate students taking computer science or electrical engineering courses enabling the internet of things also belongs on the bookshelves of industry professionals and researchers who regularly work with and on the internet of things and who seek a better understanding of its foundational and advanced topics

more objects and devices are connected to digital networks than ever before things from your phone to your car from the heating to the lights in your house have gathered the ability to sense their environments and create information about what is happening things have become media able to both generate and communicate information this has become known as the internet of things in this accessible introduction graham meikle and mercedes bunz observe its promises of convenience and the breaking of new frontiers in communication they also raise urgent questions regarding ubiquitous surveillance and information security as well as the transformation of intimate personal information into commercial data discussing the internet of things from a media and communication perspective this book is an important resource for courses analysing the internet and society and essential reading for anyone who wants to better understand the rapidly changing roles of our networked lives

the internet of things includes all the physical objects connected to the internet that can send receive or exchange data phones can tell users the weather mirrors can display daily schedules and shoes can track the user s running pace the internet of things impacts people s lives every

day and its uses continue to grow

internet of things applications aims to provide a broad overview of various topics of internet of things iot from the research innovation and development priorities to enabling technologies nanoelectronics cyber physical systems architecture interoperability and industrial applications it is intended to be a standalone book in a series that covers the iot activities of the internet of things european research cluster ierc from technology to international cooperation and the global state of play the book builds on the ideas put forward by the ierc strategic research agenda and presents global views and state of the art results on the challenges the research development and deployment of iot face at the global level iot is creating a revolutionary new paradigm with opportunities in every industry including health care pharmaceuticals food and beverage agriculture computer electronics telecommunications automotive aeronautics transportation energy and retail to apply the massive potential of the iot to achieving real world solutions the beneficiaries will include semiconductor companies device and product companies infrastructure software companies application software companies consulting companies and telecommunication and cloud service providers iot will create new revenues annually for these stakeholders and potentially create substantial market share shakeups due to increased technology competition the iot will fuel technology innovation by creating the means for machines to communicate several different types of information with one another at the same time it will contribute to the increased value of information created by the number of interconnections among things and the transformation of the processed information into knowledge shared in the internet of everything the success of iot depends strongly on enabling technology development market acceptance and standardization which provides interoperability compatibility reliability and effective operations on a global scale the connected devices are part of ecosystems connecting people processes data and things which are communicating in the cloud using the increased storage and computing power and pushing for standardization of communication and metadata in this context product manufacturers have to address security privacy safety and trust through the life cycle of their products from design to the support processes the iot developments address the whole iot spectrum from devices at the edge to cloud and datacentres on the backend and everything in between through ecosystems created by industry research and application stakeholders that enable real world use cases to accelerate the iot and establish open interoperability standards and common architectures for iot solutions enabling technologies such as nanoelectronics sensors actuators cyber physical systems intelligent device management smart gateways telematics smart network infrastructure cloud computing and software technologies will create new products services and interfaces by creating smart environments and smart spaces with applications ranging from smart cities smart transport buildings energy and grid to smart health and life technical topics discussed in the book include introduction internet of things strategic research and innovation agenda internet of things in the industrial context time for deployment integration of heterogeneous smart objects applications and services evolution from device to semantic and business interoperability software define and virtualization of network resources innovation through interoperability and standardisation when everything is connected anytime at anyplace dynamic context aware scalable and trust based iot security privacy framework federated cloud service management and the internet of things internet of things applications

this book constitutes the refereed proceedings of the 4th ifip wg 5 5 socolnet doctoral

conference on computing electrical and industrial systems doceis 2013 held in costa de caparica portugal in april 2013 the 69 revised full papers were carefully reviewed and selected from numerous submissions they cover a wide spectrum of topics ranging from collaborative enterprise networks to microelectronics the papers are organized in the following topical sections collaborative enterprise networks service orientation intelligent computational systems computational systems computational systems applications perceptual systems robotics and manufacturing embedded systems and petri nets control and decision integration of power electronics systems with ict energy generation energy distribution energy transformation optimization techniques in energy telecommunications electronics devices design electronics amplifiers electronics rf applications and electronics applications

this book will examine the issues of iot according to three complementary axes technique use ethics the techniques used to produce artefacts physical objects infrastructures programs algorithms software and data big data linked data metadata ontologies are the subject of many innovations as the field of iot is rich and stimulating along with this technological boom iot uses colonize new fields of application in the fields of transport administration housing maintenance health sports well being privileged interface with digital ecosystems now at the heart of social exchanges the iot develops a power to act whose consequences both good and bad make it difficult to assess a fair business

jacques vallee was among the engineers and visionaries who set up the internet hoping to connect people not control them through information for a few years it seemed that this dream was being realized but after the dot com crash of 2001 much of the s information flowed into the media giants and corporate conglomerates leaving millions of net denizens without true freedom of choice and then there is the threat of government snooping all is not lost but it is time for public and private actions to rebuild the dream and win back our freedom in the heart of the internet vallee reconstructs the history of computer technology and destroys a few myths eniac was not the first computer apple did not invent the mouse and neither did xerox uses first person recollections and notes to describe the series of breakthroughs that transformed computers from calculating machines to universal platforms for new media describes the internet in today s marketplace pressured on the one hand by commercial interests seeking to influence not merely our purchases but our thoughts and on the other by governmental obsession to harness the whole system to its own narrow definitions of security sacrificing our privacy and possibly our freedom in the process states a set of principles for network citizens and suggests how we can create new standards for internet usage book jacket

presents an cyber assurance approach to the internet of things iot this book discusses the cyber assurance needs of the iot environment highlighting key information assurance ia iot issues and identifying the associated security implications through contributions from cyber assurance ia information security and iot industry practitioners and experts the text covers fundamental and advanced concepts necessary to grasp current ia issues challenges and solutions for the iot the future trends in iot infrastructures architectures and applications are also examined other topics discussed include the ia protection of iot systems and information being stored processed or transmitted from unauthorized access or modification of machine 2 machine m2m devices radio frequency identification rfid networks wireless sensor networks smart grids and supervisory control and data acquisition scada systems the book also discusses ia measures necessary to

detect protect and defend iot information and networks systems to ensure their availability integrity authentication confidentially and non repudiation discusses current research and emerging trends in ia theory applications architecture and information security in the iot based on theoretical aspects and studies of practical applications aids readers in understanding how to design and build cyber assurance into the iot exposes engineers and designers to new strategies and emerging standards and promotes active development of cyber assurance covers challenging issues as well as potential solutions encouraging discussion and debate amongst those in the field cyber assurance for the internet of things is written for researchers and professionals working in the field of wireless technologies information security architecture and security system design this book will also serve as a reference for professors and students involved in ia and iot networking tyson t brooks is an adjunct professor in the school of information studies at syracuse university he also works with the center for information and systems assurance and trust cisat at syracuse university and is an information security technologist and science practitioner dr brooks is the founder editor in chief of the international journal of internet of things and cyber assurance an associate editor for the journal of enterprise architecture the international journal of cloud computing and services science and the international journal of information and network security

as the number of digital devices used in daily life grows it comes as no surprise that the next step in technological evolution is to conveniently interconnect these devices this is where the internet of things fits in the internet of things refers to all devices that are connected to the internet and share data on it but there are numerous applications for this technology ranging from smartphones to driverless cars despite the convenience smart devices offer they also raise significant concerns about data privacy and security readers will encounter contrasting viewpoints on this timely and evolving issue

a fascinating accessible and expertly written introduction to the most important invention in human history the internet

this book provides an overview of the internet of things iot covering new ideas concepts research and innovation to enable the development of iot technologies in a global context the work is intended as a standalone book in a series covering the activities of the internet of things european research cluster ierc including research technological innovation validation and deployment the book chapters build on the developments and innovative ideas put forward by the ierc the iot european large scale pilots programme and the iot european security and privacy projects presenting new concepts ideas and future iot trends and ways of integrating open data frameworks and iot marketplaces into larger deployment ecosystems the iot and industrial internet of things technologies are moving towards hyperautomated solutions combining hyperconnectivity artificial intelligence ai distributed ledger technologies and virtual augmented extended reality with edge computing and deep edge processing becoming an assertive factor across industries for implementing intelligent distributed computing resources and data to keep the efficient data exchange and processing local to reduce latency exploit the sensing actuating capabilities and enable greater autonomy expanding the adoption of consumer business industrial and tactile iot requires further development of hyperautomated iot concepts for collaborative solutions involving machines and humans to expand augmented creativity at the application level using ai to optimise the industrial processes and progress

towards a symbiotic economy based on distributed federated cloud edge infrastructure allowing resource sharing in the form of computing memory and analytics capabilities the advances of autonomous iot applications delivering services in real time encompasses development in servitisation robotisation automation and hyperconnectivity which are essential for the rapid evolution of industrial enterprises in the new digital era the rise of digital twins integrated into iot platforms as fully interactive elements embedded into the simulation and optimisation environment as well as the embedment of ai techniques and methods enhances the accuracy and performance of models in the various iot and industrial internet of things applications the convergence of technologies to provide scalable interoperable iot enabled applications pushed the requirements for high bandwidth low latency and robust and dependable connectivity to support the industry's demand for deeper integration and improved analytics to deliver sustainable competitive advantage products and services enabling digital transformation with a focus on new business models safety and security are interlinked for the next wave of iot technologies and applications and combined prove a greater value for rapid adoption the new iot technologies are essential for facilitating sustainable development reducing energy consumption and by supporting the optimisation of products and processes mitigating unnecessary carbon emissions thereby reducing the environmental impact through real time data collection analysis exchange and processing

some watershed technological innovations have proven to alter the course of history from the birth of the world wide web to the era of e commerce and the emergence of social media as people's media technologies have been instrumental in shaping the world as it is today today the phenomena of internet of things allows everyday objects and devices connected to the internet to interact with each other and exchange data as a result the space between the physical and digital is gradually reducing while the phenomenon of the internet of things is gaining momentum it ignores the larger world of things one uses in daily life which can't connect directly to the internet themselves the the internet of products attempts to decode the larger opportunity that lies in the world of pseudo connected internet of things it looks into the larger world of products and things that can not connect directly to the internet but which could potentially participate within the internet of things through creating digital representations of real world objects and interacting with them the book covers some real world innovative cases where brands or retailers have used the underlying concepts behind the internet of products and looks at the potential it has to impact areas such as healthcare automobile retail apparel and lifestyle effectively being the next big technology paradigm shift

the historical development of the internet of things iot can be traced back to the early days of the internet and the evolution of various technologies that enabled interconnected devices the concept of connecting devices to the internet began gaining traction in the late 20th century with the introduction of the internet itself in the 1960s and 1970s during this period researchers and engineers started exploring the potential of linking everyday objects to the internet paving the way for what would eventually become the iot one of the earliest examples of a connected device was a modified toaster at carnegie mellon university in the 1980s which could report its toasting status over the internet this simple experiment highlighted the potential for remote monitoring and control of devices in the following decades technological advancements continued to propel the idea of iot forward the introduction of wireless communication protocols in the 1990s such as bluetooth and wi fi made it easier for devices to connect without

the need for physical cables this evolution allowed for greater mobility and flexibility in device connectivity at the same time the concept of ubiquitous computing emerged championed by researchers like mark weiser who envisioned a future where technology would be seamlessly integrated into everyday life these foundational ideas set the stage for the more complex interconnectivity in iot today

this book focuses on the internet of everything and related fields the internet of everything adds connectivity and intelligence to just about every device giving it special functions the book provides a common platform for integrating information from heterogeneous sources however this can be quite reductive as the internet of everything provides links not only among things but also data people and business processes the evolution of current sensor and device networks with strong interactions between people and social environments will have a dramatic impact on everything from city planning first responders the military and health such a shared ecosystem will allow for the interaction between data sensor inputs and heterogeneous systems semantics is a fundamental component of this since semantic technologies are able to provide the necessary bridge between different data representations and to solve terminology incongruence integrating data from distributed devices sensor networks social networks and biomedical instruments requires first of all the systematization of the current state of the art in such fields then it is necessary to identify a common action thread to actually merge and homogenize standards and techniques applied in such a heterogeneous field the exact requirements of an internet of everything environment need to be precisely identified and formally expressed and finally the role of modern computing paradigms such as cloud and fog computing needs to be assessed with respect to the requirements expressed by an internet of everything ecosystem

through the lens of culture the internet of elsewhere looks at the role of the internet as a catalyst in transforming communications politics and economics cyrus farivar explores the internet's history and effects in four distinct and to some surprising societies iran estonia south korea and senegal he profiles pioneers in these countries and at the same time surveys the environments in which they each work after all contends farivar despite california's great success in creating the internet and spawning companies like apple and google in some areas the united states is still years behind other nations surprised you won't be for long as farivar proves there are reasons that skype was invented in estonia the same country that developed a digital id system and e voting iran was the first country in the world to arrest a blogger in 2003 south korea is the most wired country on the planet with faster and less expensive broadband than anywhere in the united states senegal may be one of sub saharan africa's best chances for greater internet access the internet of elsewhere brings forth a new complex and modern understanding of how the internet spreads globally with both good and bad effects

build and program projects that tap into the internet of things iot using arduino raspberry pi and beaglebone black this innovative guide gets you started right away working with the most popular processing platforms wireless communication technologies the cloud and a variety of sensors you'll learn how to take advantage of the utility and versatility of the iot and connect devices and systems to the internet using sensors each project features a list of the tools and components how to explanations with photos and illustrations and complete programming code all projects can be modified and expanded so you can build on your skills the internet of things

diy projects with arduino raspberry pi and beaglebone black covers the basics of java c python javascript and other programming languages used in the projects shows you how to use ibm s net beans ide and the eclipse ide explains how to set up small scale networks to connect the projects to the internet includes essential tips for setting up and using a mysql database the fun diy projects in the book include raspberry pi home temperature measurements raspberry pi surveillance webcams raspberry pi home weather station arduino garage door controller arduino irrigation controller arduino outdoor lighting controller beaglebone message panel beaglebone remote control sdr machine to machine demonstration project

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