PODCAST ELECTRÓNICA PORTUGAL

Documento onde estão os links para temas debatidos em cada episódio do podcast.

Audioteca dos episódios do podcast:
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Sugestões para:

- Sérgio Sena - email | web | instagram
- David Martins - email | web | instagram | facebook

Episódio #040 - Stock Reciclado

20210214

- Renesas Acquires Dialog Semiconductor in $6 Billion Deal
- Global Governments Petition Taiwanese Chipmakers for Help Amidst Auto Supply Shortage
- The Semi Chip Shortage Is Turning Into A Crisis

Episódio #039 - 5G Inductivo

20210131

- ALEX-R5 series - Ultra-small LTE-M / NB-IoT SiP with Secure Cloud
- Stop EMI from spreading in an EV design
- Global chip shortage puts car supply chain under the microscope

- 2021 Global ICT & Emerging Technologies Virtual Summit & 2021 Global IoT, RFID, Cloud & Drone Virtual Summit
- Online Events - January/February 2021

Episódio #038 - Filtros Acelerativos

20210124

- **Zero offset active lowpass filter, part 5**
- **AXO315 - Inertial sensors: TDK releases Tronics AXO®315 – high performance, force-rebalance SMD MEMS accelerometer with digital interface**
- **The Things Conference 2021**
- **Hardware Security Training Berlin 2021**
- **2021 Global ICT & Emerging Technologies Virtual Summit & 2021 Global IoT, RFID, Cloud & Drone Virtual Summit**

Episódio #037 - Transistores Sem Género

20210110

- https://www.allaboutcircuits.com/news/researchers-propose-new-unhackable-transistor/
- https://www.allaboutcircuits.com/news/is-analog-engineering-a-dying-art/
- The Things Conference 2021
- London Internet of Things Meetup 107 19 Jan
- What your Differential Pairs Wish You Knew with Rick Hartley - AltiumLive Keynote

Episódio #036 - Standards Desbloqueados

20201220

- IEC 61000 Testing / EN 61000 Testing
- The Things Conference 2021

Episódio #035 - Filtros Lock-In

20201213

- Implementing Digital Lock-In Amplifiers Using the dsPIC DSC
- Security standard for consumer IoT emerges
- LoRa Alliance® Accelerates Massive IoT with the Introduction of Zero-Touch Device Provisioning Using QR Codes
- Commercial News: Lead Times // Price Trends // Product Groups - Lead Times // Price Trends // Product Groups
- The Things Conference 2021
- London IoT
- The things network

Episódio #034 - Recrutamentos sem vaga

20201206

- Discussao sobre agencias de recrutamento, o estado do recrutamento em Portugal e a mentalidade das agencias, empresas e pessoas a frente das mesmas.

Episódio #033 - Qualificações Indutivas

20201122

- The Engineer’s Guide To EMI In DC-DC Converters (Part 15): Differential-Mode Input Filter Design
- QI WC standard + STWLC88
- Commercial News: Lead Times // Price Trends // Product Groups
- The Things Conference 2021
- Radiocrafts - Sub-GHz Mesh RIIM 2.0
- London IoT

Episódio #032 - Drones Com Esturro

20201108

- Drones para incêndios que custaram 4,5 milhões à Força Aérea tiveram de ser devolvidos
- outra noticia
- Imagem
- DiarioNoticias
- Pplware
- DiarioNoticias2
- exameInformatica

Episódio #031 - Stock Bilionário

20201101

- AMD Agrees to Buy Xilinx for $35 Billion in Stock
- Hackaday Remoticon 2020 - novembro 6-8 - outro link
- Sensirion's VOC index for smartly regulating air treatment devices and monitoring indoor air quality

Episódio #030 - Entrevista: José Marcelino

20201025

Os contactos do nosso convidado desta semana, José Marcelino:

- jose.marcelino@rakwireless.com
- RAKwireless Technology Co., Ltd.

Episódio #029 - Sinais Preventivos

20201018

- **500-mA 1-cell linear charger with 10-nA ship mode - BQ21061**
- **Dual Narrow/Wideband RF Transceiver - ADRV9002**
- **Microchip: Analog Design in the Digital Age**
- **Commercial News: Lead Times // Price Trends // Product Groups**
- **smart building technology 27out**
- **Check out all the EBV Online Events OUTUBRO**

Sensing Discovery Day - Sensors for Biosensing and Image-Processing last Tuesday, October 13th 2020 .

- An overview of Key Body vital signs (Maxim Integrated)
- Introduction to Remote Patient Monitoring (RPM) (Maxim Integrated)
- Image Sensor Innovations for Machine Vision, Robotics, and Edge AI Applications (ON Semiconductor)
- The flexibility of light and how ROHM makes the best out of it (ROHM)
- SMART Image Processing: Break the Bounds of Standard ISPs (Xilinx)
- Q&A Session - Day 1 (Avnet Silica)

Episódio #028 - Satélites em terra, agitação no ar

20201011

- European Semiconductor Sales Drop, Global Sales Rise
- Webinar: Sensing Discovery Days

Episódio #027 - Férias Protocolares

20201004

- **Double the Protocols, Cut the Board Space: How Multi-Protocol SoCs are Simplifying IoT Design**
- **Commercial News: Lead Times // Price Trends // Product Groups**
- **IoT for ports and shipping - 15 outubro**
- **SILABS:**
  - **What's Next in Smart Retail Technology? - 7out**
  - **Transforming HMI in Industrial Devices Using Bluetooth 14/15out**

Episódio #026 - Microfone In-Loco

20200927

- GreenCityzen and the United Nations secure water delivery in African refugee camps using LoRaWAN
- https://www.ti.com/product/TLV9061
- https://www.ti.com/product/TMP103
-

Episódio #025 - Desvios de Produção

20200920

- TSMC Reveals Ambitious Plans for Its 4nm and 3nm Processes
- A Shift in the Industry: Electronics Manufacturers Consider “Boycotting” China
- Apple on Arm: How did we get here?
-

Episódio #024 - Ácaros Pilhantes

20200913

- The Things Indoor Gateway
- ST 60-GHz Short-Range RF Transceivers
- Chinese Hackers Have Pillaged Taiwan's Semiconductor Industry

Episódio #023 - Certificações Sintetizadas

20200906

- Nao houve links neste episodio

Episódio #022 - Tijolo Neuronal

20200830

- Estão a ser criados tijolos que funcionarão como baterias
- Edge AI Chips for Voice-Activated Devices Save Power, Protect Privacy
- Best Power-Related Online Events

Episódio #021 - Ventiladores Suspeitos

20200818

A foto tem link p imagem maior

https://expresso.pt/sociedade/2020-07-29-Infarmed-deu-autorizacao-excecional-ao-ventilador-Atena-apesar-de-chumbo-na-avaliacao-dos-peritos

https://www.publico.pt/2020/07/29/ciencia/noticia/peritos-chumbaram-ventilador-atena-infarmed-aprovouo-1926225

https://sicnoticias.pt/especiais/coronavirus/2020-07-28-Centro-portugues-que-desenvolveu-ventilador-garante-seguranca-para-utilizacao

EVENTOS:

- Hardware Security Conference & Training, Netherlands 2020
- Hackaday, an alternative grad school for hardware hackers
- [S] What is the Hackaday Prize?
- Hackaday classes and events

Posicoes abertas na SPIRE. Para quem estiver interessado, eu (Sena) posso fazer a ligacao mais rapida ::

Antenna Engineer
Embedded Software Engineer, ISL
RF Engineer
Scientific Programmer/SWE
Senior RF Engineer
Senior Security Software Developer
Senior Software Engineer
Spacecraft Electronics Design Engineer

Episódio #020 - Iluminação ao Quilómetro

20200809

- Discussao de projecto iluminacao LED com 5km e multiplas possibilidades de execucao

Episódio #019 - Poeira Espacial

20200802

- **How Difficult Is It to Design Electrical and Electronics Equipment for Space?**
- Nao falado no podcast, mas fica o link :: DEFCON opensource event

Episódio #018 - RAIN de Insolvências

20200726

- RAIN UHF RFID
- Intel Doubles Down On AI Strategy With New CPU, FPGA Silicon
- Li-Fi market to reach $8 billion by 2030
- Shenzen Adopts China's First Personal Bankruptcy Laws As Small Businesses, Freelancers Face Financial Ruin

Episódio #017 - Coração de Aquisições

Publicado a 20200719

- **Integrated voltage regulator enables DC/DC conversion without discrete components**
- **Powering a Pacemaker from Within: a Light-Harvesting Implant May Eliminate Battery-Replacement Surgery**
- **The Immortal IoT: How Energy-Harvesting PMICs and Low-Power MCUs Enable the "Infinite Battery" - https://e-peas.com/**
- **Murata introduces metal terminal type MLCCs with high voltage tolerance for large-current snubber circuits in automotive and general-purpose applications**
- **Analog Devices-Maxim Deal Portends Distribution Shakeup**
- EBV: Commercial News: Lead Times // Price Trends // Product Groups
- **An alternative grad school for hardware hackers HACKADAY-IO**
-

Episódio #016 - Sweet Sixteen

Publicado a 20200712

- [Online] Hardware Security Training, Netherlands 2020
- ST MOOCs - libertado durante o confinamento para meter a malta a estudar

Episódio #015 - 0x0F

Publicado a 20200705

- Segmento ESTADO DA NACAO
- Adopção IoT Social e Industrial, debate filosófico

Episódio #014 - Sinais Mistos

Publicado a 20200628

- **SLG47105 - Programmable Mixed-signal Matrix**
- **MLX90614 Digital plug & play infrared thermometer in a TO-can**

- **Rebounding Electronic Component Sales Sentiment**
- **Sampling of 2Q Semiconductor Sales Guidance Now At -5%**

- **The Things Network survey, vao partilhar resultados inquerito**

Episódio #013 - Treze

Publicado a 20200621

- **DA16200 - Ultra Low Power Wi-Fi SoC for battery powered IoT devices**
- **DC-to-DC Conversion Directly from Automotive Battery Input: 5 A, 3.3 V, and 5 V Supplies Meet Stringent EMI Emission Standards**
- **EBV Virtual Power Fair ! 24/25 Junho**

Episódio #012 - À dúzia é mais barato

Publicado a 20200614

- **The IIS3DWB 3-axis MEMS accelerometer detects vibrations that are prime indicators of a machine's service requirements**
- **ST whitepaper PDF**

- **Smallest digital temperature indicator protects USB Type-C and USB cables**

- **Lumotive is making three-pronged pivot, by adding smartphone lidar chips to its roadmap.**

- **Is Silver The Answer For Solid-State Cells? Samsung Thinks So**

Episódio #011 - Certificações Fractais

Publicado a 20200607

- **Say “No More” to Tedious Calculations for E Series Values**
- **http://www.ti.com/download/kbase/volt/volt_div3.htm**

- **How to ace your regulatory compliance test**

- **Teardown: What makes the Amazon Fire TV Stick tick?**

- **WICED fractal antennas**

Episódio #010 - Silício em Navegação

Publicado a 20200524

- [Micron Digital Claims to Have Eliminated Drifting in IMUs]
- [Taiwan's TSMC to build Arizona chip plant as U.S.-China tech rivalry escalates]
- [PTC Resettable fuse application guidelines] - **PDF**
- [Leading efficiency gains up to 98.4% for #vehicle #onboard_charger with Infineon's new #Automotive 650V High-voltage superjunction #CoolMOS MOSFET.]
- [500V-950V CoolMOS™ N-Channel Power MOSFET]

Honda breathes a second life into its batteries

By Christoph Hammerschmidt

Honda Motor Europe is striving for a more sustainable use of batteries in electric vehicles: The batteries are to be given a "second life" as a storage medium for renewable energies after their service life in the car. To this end, the car manufacturer is expanding its existing partnership with the Société Nouvelle d'Affinage des Métaux (SNAM). The agreement provides for the Europe-wide collection and recycling of used Honda batteries. The spent batteries are prepared for their second life. If reuse is not possible, valuable materials are recovered from the batteries and recycled.

Honda and SNAM have already been working together since 2013 on solutions for the traceability and disposal of used batteries in accordance with the environmental standards of the European Union. Based on the new expansion, SNAM will in the future collect lithium-ion and nickel-metal hydride batteries from Honda dealers and authorised recycling facilities in 22 countries and test their suitability for recycling and further processing.

With the increasing popularity of hybrid and battery electric vehicles, there is also a growing need to handle the vehicles' spent batteries in the most environmentally friendly way possible. In the light of recent developments in the market, it has now become possible to use these batteries beyond their first life cycle to supply electricity to businesses or to use optimised recycling techniques to obtain valuable raw materials that can then be used to produce new batteries.

For the collection of used traction batteries, SNAM will use low-CO^2 means of transport. The company will then test and evaluate which battery packs are suitable for use in new energy storage devices. These are then processed and made available for domestic or industrial applications.

If battery cells are damaged and unsuitable for recycling, raw materials such as cobalt or lithium can be extracted from them. For this purpose, certain hydrometallurgical processes using aqueous solutions are used. The raw materials can be used in the production of new batteries, for the manufacture of colour pigments or as mortar additives. Other materials such as copper, metal and plastics are also recycled and marketed for subsequent use in the manufacture of various products.

Through SNAM's online platform, dealers have the opportunity to request the collection of spent batteries for further recycling. The collection is to take place within 15 working days via central storage centres, which should save dealers from having to store batteries on their own premises. Not included in the agreement between Honda and SNAM are ordinary lead-acid batteries as used in internal combustion engine vehicles.

Episódio #009 - Pó Sensorial

Publicado a 20200517

- **A industria de semicondutores - PDF**
- **SMIC Aims to Raise More Than $3B for Expansion**
-
- **Microsensors Developed Using Optical Wireless ICs to Increase Sensing and Communication Range**
- **GPS Dead Reckoning - NEO-M8U**
- **Ultra-wide bandwidth, low-noise, 3-axis digital vibration sensor - IIS3DWB**
- **Time-of-Flight proximity sensor and IR emitter two-in-one module - VL6180**
- **Coronavirus: People-tracking wristbands tested to enforce lockdown**