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*Das Mikrocontroller Applikations Kochbuch*

2. Octro Inc appoints Arup Das as its Chief Technology Officer Mobile gaming company Octro Inc has announced the appointment of Arup Das as Chief Technology Officer. Arup, a seasoned business ...

*New CxO Appointments in July 2021*

A few weeks ago, [Debarghya Das] had two friends eagerly awaiting the results of their High School exit exams, the ISC national examination, taken by 65,000 12th graders in India. This exam is ...

*Hacking High School Exams And Foiling Them With Statistics*

The announced IP and development partnership will also extend to Intel's IFS business as well, as Intel continues to curate offerings for its catalogue, in addition to its x86 offerings.

*HW News - WD Drives Deleting Data, GPU Prices Dropping, Windows 11 TPM Requirements*

Such programs are proving successful, but are not without issues. Enter Das Katzetelegraf. You don't need to understand a lick of German to figure out exactly what Das Katzetelegraf does from ...

*Hackaday Prize Entry: Feral Cats Phone Home With Das Katzetelegraf*

Data acquisition, referenced by the acronyms DAS or DAQ, is the digitizing and processing of ... They are customized for a particular application and may require specific modules in order to ...

*Data Acquisition Information*

where the password application can be stored on the HDD, thus freeing the consumer to use multiple PCs without having to find the CD that originally shipped with the product. As with all PLX DAS ...

*PLX Sampling Industry's Highest-Performance USB SuperSpeed 3.0 Controllers*

As an example a 2x2 low power radio can be deployed using a 240MHz signal bandwidth per antenna either in contiguous or non-contiguous spectrum applications making it ideal for high performance ...

*eASIC and Concores Announce Availability of CPRI v6.1*

Claude Dardanne, President of the Microcontroller and Digital ICs ... the company to cater to multiple customers with various applications. Moreover, STMicroelectronics is working closely with ...

*STMicroelectronics: Spearheading Significant Product Developments & Partnerships*

About Boingo Wireless Boingo Wireless, Inc. helps the world stay connected. Our vast footprint of DAS, Wi-Fi, macro towers, and small cells powers large scale venues and enterprise operations ...

*Boingo Private Networks Launches to Power Innovation and Drive Efficiencies for Business Enterprise*

Feasibility studies, also called Proof of Concept (PoC), are important tools in project management with which requirements for an application can be validated and an acceptance test can be carried out ...

*Here, Vodafone and Porsche work on real-time warning system*

It shows that more and more companies are turning to open source applications. Edge computing is also increasingly becoming the focus of activities. Recently, the Eclipse Foundation published its ...

*Interest in edge computing is growing*

It cannot get faster, easier and convenient than this. RBI's pet project Unified Payment Interface (UPI) will go live on July 31, giving a big boost to the institution's efforts to make India ...

*Tag "RBI"*

Another is that, for simple thermal management, TI's newest option for 14-bit, ADC3541, offers 36 mW per channel, thus potentially extending battery life in power-sensitive applications such as GPS ...

*TI's New SAR ADCs Beat Old Noise and Sampling Rate Challenges*

Souradeep Das of Ram Krishna Mission, Deoghar secured the first rank. He is a resident of Raiganj in North Dinajpur district. Subham Ghosh of DAV Model School, Durgapur bagged the second rank.

*99% Candidates Pass In WBJEE Result 2020*

June 23, 2021 (GLOBE NEWSWIRE) -- Microcontroller (MCU ... examples and software applications using the intuitive catalog in MPLAB Discover. Selected code and projects instantly populate in ...

*MPLAB Cloud Tools Ecosystem Brings Secure, Platform-independent Development Workflow to PIC and AVR Microcontrollers*

students are left with nothing but anxiety while struggling to understand the changes in examination pattern," said Shikha Das, a KVS teacher.

*'NEET 2021 Exam Dates Are As Important As IIT JEE Advanced Paper Schedule': Students*

Hardware is the physical component of smart locks and consists of microcontroller units, Bluetooth transmitters, and smartphones. The increased application of smart devices in new construction ...

*U.S. Smart Lock Market Size to Reach Revenues of USD 1,497.96 Million by 2026 - Arizton*

SAN FRANCISCO, June 28, 2021 /PRNewswire/ -- The global smart card in healthcare market size is expected to reach USD 2.46 billion by 2028, according to a new report by Grand View Research, Inc ...

Inhaltsangabe:Einleitung: Am Institut für Regelungs- und Prozessleittechnik der FH Mannheim werden für Laborübungen mit digitalen Reglern Regelstrecken durch analoge Rechenschaltungen nachgebildet; diese Analoggeräte sind sehr komplex aufgebaut, stör anfällig und in der Bedienung nicht unproblematisch. Eine Idee war es, diese analoge Regelstrecke durch eine einfach zu bedienende universelle digitale Regelstrecke zu ersetzen, welche im Regelkreis das gleiche Verhalten wie die analoge Regelstrecke zeigt. Um ein quasistationäres Verhalten des Systems zu gewährleisten, muß die maximale Abtastzeit der digitalen Strecke kleiner sein als die minimale Abtastzeit des Reglers (15ms). Dies sollte mit dem 16-Bit Mikrocontroller 80C166 von Siemens erreicht werden. In zwei vorangegangenen Diplomarbeiten wurde ein voll funktionsfähiges Gerät entwickelt, das allerdings einige Mängel in der Hardware aufweist und dessen Bedienkonzept über keinen Raum für spätere Erweiterungen verfügt. Im Rahmen einer Diplomarbeit war die bestehende Hardware und Software für die z.Z. bestehende digitale Regelstrecke zu überarbeiten und ein neues Bedienkonzept, das über ein LCD-Display angezeigt werden soll, zu entwickeln. Inhaltsverzeichnis:Inhaltsverzeichnis: 1.Einleitung6 1.1Allgemeines6 1.2Aufgabenstellung6 2.Grundlagen zur Hardware7 2.1Netzteil und Busplatine7 2.2Wahl des Mikrocontrollers7 2.2.1Mikrocontroller Vergleich7 2.3Der Mikrocontroller 80C1668 2.3.1Speicherorganisation9 2.3.2CPU9 2.3.3Interruptsystem10 2.3.4Externer Bus11 2.3.5Parallele Ports11 2.3.6Serielle Ports12 2.3.7Timer Einheit12 2.3.8Capture-/Compare-Einheit12 2.3.9AD-Wandler des Mikrocontrollers12 2.3.10Watchdog-Timer13 2.4Die LCD-Anzeige14 2.4.1Der Grafikcontroller HD4478015 2.4.1.1Die Register15 2.4.1.2Das Busy-Flag16 2.4.1.3Der Adreßzähler16 2.4.1.4Das Anzeigen-RAM16 2.4.1.5Das Charakter-ROM16 2.4.1.6Das Charakter-RAM16 2.4.1.7Der Befehlssatz17 2.5EAGLE Layout-Editor19 3.Grundlagen zur Software21 3.1Regelstreckengleichungen21 3.1.1Proportionalglied (P-Glied)21 3.1.2Integrierglied (I-Glied)21 3.1.3Verzögerungsglied 1. Ordnung (T1 Glied)21 3.2C166 Standard Developers Kit22 3.3EPROM-Simulator23 4.Die Hardware25 4.1Blockschaltbild der Hardware25 4.2Die Eingangsbeschaltung25 4.3Die Ausgangsbeschaltung27 4.4Die Bargraphanzeige29 4.5Die Overflow/Underflow Anzeigen31 4.6Eingabetaster32 4.7Das LCD-Display33 4.8Die Mikrocontrollerplatine33 4.8.1Portbelegung des [...]

Rezept auswählen, Zutaten zusammenstellen - und genießen. Nach genau diesem Konzept finden Sie in diesem Buch alles, um Ihr "Mikrocontroller-Süppchen" zu kochen: Von den ersten Programmierschritten über Messungen unterschiedlichster Größen bis zum Erzeugen von Signalen und zur Kommunikation über diverse Schnittstellen. Entdecken Sie die schier endlosen Möglichkeiten der Mikrocontroller! Mit nur wenig Programmieraufwand verwirklichen Sie im Handumdrehen Ihre Ideen. Schritt für Schritt begleitet dieses Buch Sie von den allgemeinen Grundlagen zur praktischen Umsetzung und erleichtert so auch komplexe Programmierungen. Am Beispiel des AVR®-Mikrocontrollers von Atmel® lernen Sie das Potenzial von Mikrocontrollern kennen und können sich dadurch auch leicht in "fremde" Mikrocontroller einarbeiten. Für Einsteiger bietet das Buch auch Hinweise zur Programmierung von Bitoperationen und einfache Codegerüste - so bleiben keine Fragen offen. Die Rezepte aus dem AVR Mikrocontroller-Kochbuch: \*Mikrocontroller-Grundlagen \*Programmierung und Implementierung \*Digitale Ein- und Ausgänge \*Spannungsmessung \*Spannungen ausgeben \*Widerstandsmessung \*Strommessung \*Zeit- und Frequenzmessung \*Kapazitäts- und Induktivitätsmessung \*Temperaturmessung \*Kommunikation mit Menschen \*Daten speichern

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Presents an introduction to the open-source electronics prototyping platform.

Get the practical knowledge you need to set up and deploy XBee modules with this hands-on, step-by-step series of experiments The only book to cover XBee in practical fashion; enables you to get up and running quickly with step-by-step tutorials. Provides insight into the product data sheets, saving you time and helping you get straight to the information you need. Includes troubleshooting and testing information, plus downloadable configuration files and fully-documented source code to illustrate and explain operations. The Hands-on XBee Lab Manual takes the reader through a range of experiments, using a hands-on approach. Each section demonstrates module set up and configuration, explores module functions and capabilities, and, where applicable, introduces the necessary microcontrollers and software to control and communicate with the modules. Experiments cover simple setup of modules, establishing a network of modules, identifying modules in the network, and some sensor-interface designs. This book explains, in practical terms, the basic capabilities and potential uses of XBee modules, and gives engineers the know-how that they need to apply the technology to their networks and embedded systems. The only book to cover XBee in practical fashion; enables you to get up and running quickly with step-by-step tutorials. • Provides insight into the product data sheets, saving you time and helping you get straight to the information you need. • Includes troubleshooting and testing information, plus downloadable configuration files and fully-documented source code to illustrate and explain operations.

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