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Audiologic has announced the expansion of its application team with the hire of Amber Jones, who joins the company as junior application support engineer. Amber Jones joins the company as the fourth ...

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Principal Power System Engineer, PESD1

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The Software Engineering Institute moves to formalize AI Engineering, as it did for software engineering, joining others studying

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Software Engineering Institute Moving to Formalize AI Engineering

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New opportunities are always coming available, but current openings include associate engineer/engineer and vehicle & equipment technician.

Working Wednesdays: Charleston Water System

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has openings for engineers and technicians

When we think about singularities, we tend to think of massive black holes in faraway galaxies or a distant future with runaway AI, but singularities are all around us. Singularities are simply a ...

Harnessing the Dark Side: Optical Singularities Could Be Used for a Wide Range of Applications

Sentar Inc. (Sentar), one of the fastest growing cybersecurity and intelligence solutions, operations and technology providers in the national security sector, announced today the award of the MSFC ...

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A team of researchers from the University of Maryland has 3D printed a soft robotic hand that is agile enough to play Nintendo's Super Mario Bros. - and win!

University of Maryland engineers 3D printed a soft robotic hand that can play Nintendo

Patent applications are fun, if only to see where automaker engineers' heads are at from time to time -- and this recently published application from Ford shows it's thinking about new ways to charge ...

Ford patent application details mobile, towing charging stations

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Vista, a global software, consulting, managed services and automation solutions firm, has announced the acquisition of long-time partner HCM Systems, a material handling equipment, systems and ...

enVista Acquires HCM Systems, Inc. to Expand Automation Capabilities

A Syracuse startup has developed a system that detects small, low-flying drones that radars can't see. Hidden Level recently raised \$17.6 million in investment funding, bringing the total amount of ...

Hidden Level develops drone detection system for security, aviation applications

The global engineering services outsourcing (ESO) market to grow at a CAGR of around 22% during forecast period (2021-2026), according to the latest report by IMARC Group. Engineering services ...

Engineering Services Outsourcing Market Report 2021-26: Industry Analysis by Service, Location, Application and Region

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Heather Nachtmann, senior associate vice chancellor for research and innovation, has been re-named associate dean for research in the College of Engineering. She will begin her new role Aug. 1.

A comprehensive, integrated guide to engineering and manufacturing applications of expert systems.

This book constitutes the refereed proceedings of the 8th International Conference on Object-Oriented Information Systems, OOIS 2002, held in Montpellier, France, in September 2002. The 34 revised full papers and 17 short papers presented were carefully reviewed and selected from 116 submissions. The papers are organized in topical sections on developing web services, object databases, XML and web, component and ontology, UML modeling, object modeling and information systems adaptation, e-business models and workflow, performance and method evaluation, programming and tests, software engineering metrics, web-based information systems, architecture and Corba, and roles and evolvable objects.

In system design (in particular, industrial control systems), there is, and has been, a continuous need to sense real-world analog quantities (such as temperature, pressure, or

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humidity), make computations with them, and then perform some action with the result. In today's systems, the computations need to be made at increased speeds and the accuracy with which the computations must be made, even as the speed increases, must be the same or higher as time progresses. The advent of the microcontroller, and its extensive use in all types of control applications, many of them battery powered, has led to new control system design approaches. Rather than computing using analog quantities, the analog quantities are sensed, conditioned, and converted to digital, processed digitally, and then converted back to an analog output, which is then used to perform the necessary output action. This practical textbook covers the latest techniques in microcontroller-based control system design. It is aimed at engineering students and engineers new to working with microcontrollers. It covers the fundamentals of: 1. Sensors and the electrical signals they output. 2. The design and application of the electronic circuits that receive and condition (change or modify) the sensor analog signals. 3. The design and application of the circuits that convert analog signals to digital and digital signals to analog. 4. The makeup and operation of a microcontroller and how to program it. 5. The application of electronic circuits for system power control. The book, written by an experienced microcontroller engineer and textbook author, is suitable for community

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college students, technical school students, technicians and engineers just being introduced to microcontroller system design. It is an introductory book, focusing on real-world implementation of a basic control system, with real-world circuit examples. Readers will find clearly written discussion coupled with lots of illustrations. They will also find worked-out examples that illustrate principles within each chapter and quizzes to aid understanding. Besides these specifics, a hands-on project, suitable for an electronics microcontroller laboratory course, using the popular and low-cost TI MSP430 microcontroller, is discussed in detail. The accompanying CD-ROM contains microcontrollers application notes, code for the software examples, and problem solutions. * Seasoned Texas Instruments designer provides a ground-up perspective on embedded control systems * Pedagogical style provides a self-learning approach with examples, quizzes and review features * CD-ROM contains source code and more!

This guide provides the building services engineer with a comprehensive understanding of modern control systems and relevant information technology. This should ensure that the best form of control systems for the building is specified and that proper provision is made for its installation, commissioning, operation and maintenance.

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For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Mechatronics is a blend of mechanical engineering, electrical engineering, computer control and information technology. Mechatronics is a design process to create more functional and adaptable products. By integrating the best design practices with the most advanced technologies, mechatronics aims at comprehending high-quality products, promising at the same time a substantial reduction of time and costs of manufacturing. Mechatronic systems are manifold and range from machine components, motion generators, and power producing machines to more complex devices, such as robotic systems and transportation vehicles. Over the years mechatronics has come to mean a methodology for designing products that exhibit fast, precise performance. These characteristics can be achieved by considering not only the mechanical design, but also the use of servo controls, sensors, and electronics.

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Mechatronics has been popular in Japan and Europe for many years but has been slow to gain industrial and academic acceptance as a field and practice in Great Britain and the United States. In the past, machine and product design has been the domain of mechanical engineers. After the machine was designed by mechanical engineers, solutions to control and programming problems were added by software and computer engineers. This sequential-engineering approach usually resulted in less-than-optimal designs and is now recognized as less than optimal itself. The prime role of mechatronics is one of initiation and integration throughout the entire design process, with the mechatronics engineer as the leader. Mechatronic Systems Applications delivers an excellent review of contemporary work in the sphere of mechatronics with applications in numerous fields, like robotics, medical and assistive technology, human-machine interaction, unmanned vehicles, manufacturing, and education. Experts in the interdisciplinary mechatronics field must be able to use the special knowledge resources of other people and the particular blend of technologies that will provide the most economic, innovative, elegant, and appropriate solution to the problem at hand. Industry needs mechatronics engineers to continue to rapidly develop innovative products with performance, quality and low cost.

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