

Canbus

Peter H. Feiler, David P. Gluch

A Comprehensible Guide to Controller Area Network Wilfried Voss, 2008 Controller Area Network (CAN) is a serial network technology that was originally designed for the automotive industry, but has also become a popular bus in industrial automation. The CAN bus is primarily used in embedded solutions and provides communication among microprocessors up to real-time requirements. A Comprehensible Guide To Controller Area Network represents a very thoroughly researched and complete work on CAN. It provides information on all CAN features and aspects combined with high level of readability. Book jacket.

Understanding and Using the Controller Area Network Communication Protocol Marco Di Natale, Haibo Zeng, Paolo Giusto, Arkadeb Ghosal, 2012-01-19 This book to offers a hands-on guide to designing, analyzing and debugging a communication infrastructure based on the Controller Area Network (CAN) bus. Although the CAN bus standard is well established and currently used in most automotive systems, as well as avionics, medical systems and other devices, its features are not fully understood by most developers, who tend to misuse the network. This results in lost opportunities for better efficiency and performance. These authors offer a comprehensive range of architectural solutions and domains of analysis. It also provides formal models and analytical results, with thorough discussion of their applicability, so that it serves as an invaluable reference for researchers and students, as well as practicing engineers.

Fundamentals of Automotive Technology Vangelder, 2017-02-24 Resource added for the Automotive Technology program 106023.

Automotive Wireless Data Acquisition with Bluetooth and CANbus Protocols Aly Shivji, 2006

Model-Based Engineering with AADL Peter H. Feiler, David P. Gluch, 2012-09-25 Conventional build-then-test practices are making today's embedded, software-reliant systems unaffordable to build. In response, more than thirty leading industrial organizations have joined SAE (formerly, the Society of Automotive Engineers) to define the SAE Architecture Analysis & Design Language (AADL) AS-5506 Standard, a rigorous and extensible foundation for model-based engineering analysis practices that encompass software system design, integration, and assurance. Using AADL, you can conduct lightweight and rigorous analyses of critical real-time factors such as performance, dependability, security, and data integrity. You can integrate additional established and custom analysis/specification techniques into your engineering environment, developing a fully unified architecture model that makes it easier to build reliable systems that meet customer expectations. Model-Based Engineering with AADL is the first guide to using this new international standard to optimize your development processes. Coauthored by Peter H. Feiler, the standard's author and technical lead, this introductory reference and tutorial is ideal for self-directed learning or classroom instruction, and is an excellent reference for practitioners, including architects, developers, integrators, validators, certifiers, first-level technical leaders, and project managers. Packed with real-world examples, it introduces all aspects of the AADL notation as part of an architecture-centric, model-based engineering approach to discovering embedded software systems problems earlier, when they

cost less to solve. Throughout, the authors compare AADL to other modeling notations and approaches, while presenting the language via a complete case study: the development and analysis of a realistic example system through repeated refinement and analysis. Part One introduces both the AADL language and core Model-Based Engineering (MBE) practices, explaining basic software systems modeling and analysis in the context of an example system, and offering practical guidelines for effectively applying AADL. Part Two describes the characteristics of each AADL element, including their representations, applicability, and constraints. The Appendix includes comprehensive listings of AADL language elements, properties incorporated in the AADL standard, and a description of the book's example system.

Can Bus Troubleshooting Vince Fischelli, 2011-01-01

The Car Hacker's Handbook Craig Smith, 2016-03-01 Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to: –Build an accurate threat model for your vehicle –Reverse engineer the CAN bus to fake engine signals –Exploit vulnerabilities in diagnostic and data-logging systems –Hack the ECU and other firmware and embedded systems –Feed exploits through infotainment and vehicle-to-vehicle communication systems –Override factory settings with performance-tuning techniques –Build physical and virtual test benches to try out exploits safely If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

Position Sensors David S. Nyce, 2016-05-20 A resource on position sensor technology, including background, operational theory, design and applications This book explains the theory and applications of the technologies used in the measurement of linear and angular/rotary position sensors. The first three chapters provide readers with the necessary background information on sensors. These chapters review: the working definitions and conventions used in sensing technology; the specifications of linear position transducers and sensors and how they affect performance; and sensor output types and communication protocols. The remaining chapters discuss each separate sensor technology in detail. These include resistive sensors, cable extension transducers, capacitive sensors, inductive sensors, LVDT and RVDT sensors, distributed impedance sensors, Hall Effect sensors, magnetoresistive sensors, magnetostrictive sensors, linear and rotary encoders, and optical triangulation position sensors. Discusses sensor specification, theory of operation, sensor design, and application criteria Reviews the

background history of the linear and angular/rotary position sensors as well as the underlying engineering techniques Includes end-of-chapter exercises Position Sensors is written for electrical, mechanical, and material engineers as well as engineering students who are interested in understanding sensor technologies.

Civil Avionics Systems Ian Moir, Allan Seabridge, Malcolm Jukes, 2013-10-14 Civil Avionics Systems, Second Edition, is an updated and in-depth practical guide to integrated avionic systems as applied to civil aircraft and this new edition has been expanded to include the latest developments in modern avionics. It describes avionic systems and potential developments in the field to help educate students and practitioners in the process of designing, building and operating modern aircraft in the contemporary aviation system. Integration is a predominant theme of this book, as aircraft systems are becoming more integrated and complex, but so is the economic, political and technical environment in which they operate. Key features:

- Content is based on many years of practical industrial experience by the authors on a range of civil and military projects
- Generates an understanding of the integration and interconnectedness of systems in modern complex aircraft
- Updated contents in the light of latest applications
- Substantial new material has been included in the areas of avionics technology, software and system safety

The authors are all recognised experts in the field and between them have over 140 years' experience in the aircraft industry. Their direct and accessible style ensures that Civil Avionics Systems, Second Edition is a must-have guide to integrated avionic systems in modern aircraft for those in the aerospace industry and academia.

Advances in Intelligent Autonomous Systems S.G. Tzafestas, 2012-12-06 This collection of twenty-three timely contributions covers a well-selected repertoire of topics within the autonomous systems field. The book discusses a range of design, construction, control, and operation problems along with a multiplicity of well-established and novel solutions.

Arduino for Arduinians John Boxall, 2023-10-24 Guided by an expert craftsman with over 30 years of experience, you'll build 70 awesome Arduino projects and emerge a true Arduinian ready to invent your own complex creations. For Arduino programmers who've mastered the basics, this book is the next step toward becoming an expert Arduinian. You'll build 70 complex and practical projects with this versatile microcontroller platform and gain advanced skills to design reliable, professional, user-friendly creations. You'll remote-control your Arduino via Bluetooth and instant messaging, improve the accuracy of clock projects with internet time servers, and automatically turn your Arduino off when it completes a task. You'll safely control AC mains power and higher currents and conserve battery with low-power and sleep modes. You'll also use Charlieplexing to control LED matrix displays, keep your Arduino running with a watchdog timer, communicate over longer wired distances with the RS232 and RS485 buses, and much more. Along the way, you'll build fun and useful devices like:

- A camera-enabled circuit to stream videos
- An MP3 player to listen to audio of your choice
- A CAN bus circuit to gather speed and engine data from your car
- A web server to display data captured with an ESP32 board
- A PS/2 keyboard to improve your user interfaces and easily enter and display data

Guided by an Arduino master, you'll harness dozens of sensors, motors, displays, and techniques to bring your own expert inventions to life. Requirements: Arduino Uno

and other Arduino-compatible microcontrollers and USBasp programmers. Some projects may require other inexpensive parts.

Controller Area Network Projects Dogan Ibrahim, 2011 The Controller Area Network (CAN) was originally developed to be used as a vehicle data bus system in passenger cars. Today, CAN controllers are available from over 20 manufacturers, and CAN is finding applications in other fields, such as medical, aerospace, process control, automation, and so on. This book is written for students, for practising engineers, for hobbyists, and for everyone else who may be interested to learn more about the CAN bus and its applications. The aim of this book is to teach you the basic principles of CAN networks and in addition the development of microcontroller based projects using the CAN bus. In summary, this book enables the reader to: Learn the theory of the CAN bus used in automotive industry; Learn the principles, operation, and programming of microcontrollers; Design complete microcontroller based projects using the C language; Develop complete real CAN bus projects using microcontrollers; Learn the principles of OBD systems used to debug vehicle electronics. You will learn how to design microcontroller based CAN bus nodes, build a CAN bus, develop high-level programs, and then exchange data in real-time over the bus. You will also learn how to build microcontroller hardware and interface it to LEDs, LCDs, and A/D converters. The book assumes that the reader has some knowledge on basic electronics. Knowledge of the C programming language will be useful in later chapters of the book, and familiarity with at least one member of the PIC series of microcontrollers will be an advantage, especially if the reader intends to develop microcontroller based projects using the CAN bus. The CD contains a special demo version of the mikroC compiler which supports the key microcontrollers including: PIC, dsPIC, PIC24, PIC32 and AVR. This special version additionally features an advanced CAN library of intuitive and simple-to-use functions to encourage programming with easy and comfortable development of CAN networks.

A Baker's Dozen Bonnie Baker, 2005-06-14 This book has been written to help digital engineers who need a few basic analog tools in their toolbox. For practicing digital engineers, students, educators and hands-on managers who are looking for the analog foundation they need to handle their daily engineering problems, this will serve as a valuable reference to the nuts-and-bolts of system analog design in a digital world. This book is a hands-on designer's guide to the most important topics in analog electronics - such as Analog-to-Digital and Digital-to-Analog conversion, operational amplifiers, filters, and integrating analog and digital systems. The presentation is tailored for engineers who are primarily experienced and/or educated in digital circuit design. This book will teach such readers how to think analog when it is the best solution to their problem. Special attention is also given to fundamental topics, such as noise and how to use analog test and measurement equipment, that are often ignored in other analog titles aimed at professional engineers. Extensive use of case-histories and real design examples Offers digital designers the right analog tool for the job at hand Conversational, anecdotal tone is very easily accessible by students and practitioners alike

Can and Fpga Communication Engineering Yu Zhu, 2010 The Controller Area Network (CAN), invented by Bosch in 1983,

is a serial field bus protocol which was originally used in road vehicles and now is widely applied in other industrial fields. Since its birth automotive electronic engineers have been use Microcontrollers (MCU) to control the CAN bus. Today, as the Field-programmable Gate Array (FPGA) has become very advance, this book introduces a new method which uses an FPGA and a MCU jointly instead of a single MCU is to design a CAN bus measurement system. Furthermore the designed system should be able to work at the fastest possible speed. Chapter 1 of this book is the introduction which includes the background, objective and outline of this book. Chapter 2 describes the CAN protocol development history and fundamentals such as application field, architecture layers, different frame structures, frame coding, error handling and fault confinement which are extracted from the CAN Specification 2.0 and ISO 11898. It helps reader to understand the CAN. Chapter 3 studies the effective data transmission rate and ratio of the CAN bus and the MCU serial UART port. Then it compares their values and draws a conclusion. This chapter is the most important theory research of this book. Chapter 4 describes the devices used in the experiments of the book. There are five major devices applied: an Altera FPGA, a 5-3.3 V level translator, an Atmel CAN MCU, a NI CAN USB and a PC with LabVIEW environment. Chapter 5 demonstrates the software development procedure for the whole system including FPGA with Quartus II, MCU with Keil C51, and NI CAN BUS with LabVIEW. Chapter 6 describes the testing experiments of the measurement system. It analyses a common error ignored during the MCU programming and shows how to solve it. After the reprogramming, three tests and their results are illustrated. Chapter 7 presents the final conclusion of this book which is that the measurement system designed here maximally utilizes the CAN effective data

Fundamentals of Automotive Technology Kirk VanGelder,2022-02-23 Fundamentals of Automotive Technology: Principles and Practice, Third Edition is a comprehensive resource that provides students with the necessary knowledge and skills to successfully master these tasks

Data Acquisition from HD Vehicles Using J1939 CAN Bus Richard Walter, Eric Walter,2016-07-14 Modern vehicles have electronic control units (ECUs) to control various subsystems such as the engine, brakes, steering, air conditioning, and infotainment. These ECUs (or simply 'controllers') are networked together to share information, and output directly measured and calculated data to each other. This in-vehicle network is a data goldmine for improved maintenance, measuring vehicle performance and its subsystems, fleet management, warranty and legal issues, reliability, durability, and accident reconstruction. The focus of Data Acquisition from HD Vehicles Using J1939 CAN Bus is to guide the reader on how to acquire and correctly interpret data from the in-vehicle network of heavy-duty (HD) vehicles. The reader will learn how to convert messages to scaled engineering parameters, and how to determine the available parameters on HD vehicles, along with their accuracy and update rate. Written by two specialists in this field, Richard (Rick) P. Walter and Eric P. Walter, principals at HEM Data, located in the United States, the book provides a unique road map for the data acquisition user. The authors give a clear and concise description of the CAN protocol plus a review of all 19 parts of the SAE International J1939 standard family. Pertinent standards are illuminated with tables, graphs and examples. Practical applications covered are

calculating fuel economy, duty cycle analysis, and capturing intermittent faults. A comparison is made of various diagnostic approaches including OBD-II, HD-OBD and World Wide Harmonized (WWH) OBD. Data Acquisition from HD Vehicles Using J1939 CAN Bus is a must-have reference for those interested to acquire data effectively from the SAE J1939 equipped vehicles.

Implementation of a CAN Bus based Measurement System on an FPGA Development Kit Yu Zhu,2010-07-05

Inhaltsangabe:Abstract: The Controller Area Network (CAN) is a serial field bus protocol which was originally used in road vehicles. Most people still use Microcontrollers (MCU) to control the CAN bus. The development of Field-programmable Gate Array (FPGA) is very advanced, and compared to the MCU the FPGA has many advantages. For this reason, this thesis uses an Altera FPGA development kit to design a CAN bus based measurement system. During the work, four Direct Digital Synthesizers (DDS) were simulated for four wave channels in the FPGA. All signals of the channels were transmitted from the FPGA to a CAN bus. Between the CAN bus and FPGA an Atmel CAN MCU, which contains both serial and CAN ports, was used as the third party. Whereby the data output from the FPGA were first transmitted to the serial port of the CAN MCU and then shifted to the CAN port of the CAN MCU. The CAN bus device (NI CAN USB-8473) which was used in this thesis, has a CAN port to connect to the CAN port of the CAN MCU, and a USB 2.0 port to connect to a PC. Finally, the data of the CAN bus was monitored on the PC with the LabVIEW platform. With this platform the data could also be transmitted to the CAN bus and then to the FPGA to change the tuning word of DDS. In order to achieve the speed limit of the complete measurement system, the communication rates of FPGA, CAN bus and CAN MCU were programmed to be the maximum. Inhaltsverzeichnis:Table of Contents:
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Designing Embedded Internet Devices Dan Eisenreich,Brian DeMuth,2003 Embedded internet and internet appliances are the focus of great attention in the computing industry, as they are seen as the future of computing. The design of such devices presents many technical challenges. This book is the first guide available that describes how to design internet access and communications capabilities into embedded systems. It takes an integrated hardware/software approach using the Java programming language and industry-standard microcontrollers. Numerous illustrations and code examples enliven the text. This book shows how to build various sensors and control devices that connect to the TINI interfaces, explains how to write programs that control them in Java, and then ties them

all together in practical applications. Included is a discussion on how these technologies work, where to get detailed specifications, and ideas for the reader to pursue beyond the book. The first guide to designing internet access and communications capabilities into embedded systems Takes an integrated hardware/software approach using the Java programming language an industry-standard

Planning and operation of integrated energy systems with deep integration of pervasive industrial internet-of-things Fengji Luo,Yunfei Mu,Gaoqi Liang,Yongxi Zhang,Linfeng Yang,2023-02-10

Embedded Networking with CAN and CANopen Olaf Pfeiffer,Andrew Ayre,Christian Keydel,2008 CAN (Controller Area Network) is a serial communication protocol that was originally developed for the automobile industry. CAN is far superior to conventional serial technologies such as RS232 in regards to functionality and reliability and yet CAN implementations are more cost effective. CANopen, a higher layer protocol based on CAN, provides the means to apply the ingenious CAN features to a variety of industrial-strength applications. Many users, for example in the field of medical engineering, opted for CANopen because they have to meet particularly stringent safety requirements. Similar requirements had to be considered by manufacturers of other equipment with very high safety or reliability requirements (e.g. robots, lifts and transportation systems). Providing a detailed look at both CAN and CANopen, this book examines those technologies in the context of embedded networks. There is an overview of general embedded networking and an introduction to the primary functionality provided by CANopen. Everything one needs to know to configure and operate a CANopen network using off-the-shelf components is described, along with details for those designers who want to build their own CANopen nodes. The wide variety of applications for CAN and CANopen is discussed, and instructions in developing embedded networks based on the protocol are included. In addition, references and examples using MicroCANopen, PCANopen Magic, and Vector's high-end development tools are provided.

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Canbus Introduction

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