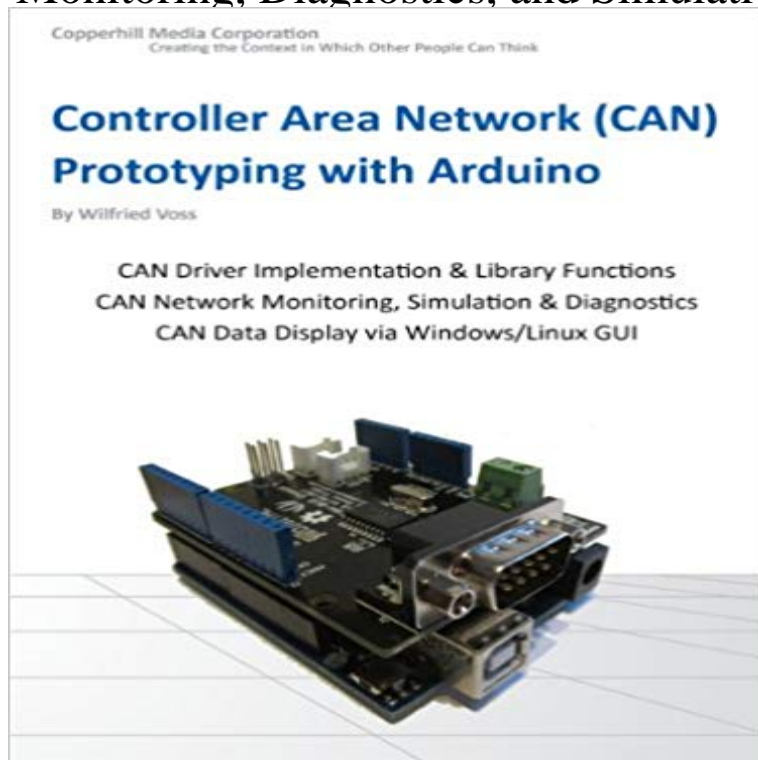# Controller Area Network Prototyping With Arduino: Creating CAN Monitoring, Diagnostics, and Simulation Applications

While the Arduino is not widely considered an industrial-strength solution, it provides, due to its low price and ease of programming, the perfect prototyping platform for all kinds of Controller Area Network (CAN) applications. This book, written by a leading expert on CAN technologies, guides the reader through the process of acquiring all necessary hardware and software components, the implementation of the CAN driver, and the implementation of programs (Arduino Sketches) to read, send, process, and display data from and to a CAN network. The collection of programming examples cumulates into a full-fledged USB-to-CAN Gateway communicating with a Windows/Linux PC. This book will enable you to achieve CAN functionality literally within only a few hours. The topics include: Introduction to Controller Area Network Prototyping Hardware and its Variants Arduino CAN Shields CAN Driver Implementation and Library Functions Simple CAN Test Programs CAN Network Monitoring, Simulation, and Diagnostics Program CAN Data Display via Windows/Linux GUI About the Author Wilfried Voss is the author of the Comprehensible Guide series of technical literature covering topics like Controller Area Network (CAN), SAE J1939, Industrial Ethernet, and Servo Motor Sizing. Mr. Voss has worked in the CAN industry since 1997 and before that was a motion control engineer in the paper manufacturing industry. He has a masters degree in electrical engineering from the University of Wuppertal in Germany. During the past years, Mr. Voss conducted numerous seminars on industrial fieldbus systems such as CAN, CANopen, SAE J1939, Industrial Ethernet, and more during various Real Time Embedded And Computing Conferences (RTECC), ISA (Instrumentation, Systems, and Automation Society) conferences and various other

events all over the United States and Canada.

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