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Autore	Simoes Jose
Titolo	Embedded Systems with .NET nanoFramework : Practical, Hands-On C# for Microcontrollers: Building Resource-Constrained IoT Devices from Peripherals to CloudMaster // by José Simões
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ISBN	979-88-6882-096-0
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (280 pages)
Collana	Professional and Applied Computing Series
Disciplina	006.2/2
Soggetti	Embedded computer systems Object-oriented methods (Computer science)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record. Includes index.
Nota di contenuto	Chapter 1: Origins and Initial Concept -- Chapter 2: Architecture -- Chapter 3: The Build System -- Chapter 4: Being Part of the .NET Ecosystem -- Chapter 5: Interfacing with the Outside World -- Chapter 6: An IoT Embedded Device -- Chapter 7: Nano Devices Big-Time Connectivity -- Chapter 8: Testing for Embedded Success -- Chapter 9: Advanced Coding Topics -- Chapter 10: Beyond Connectivity - MCP in Embedded Devices.
Sommario/riassunto	Learn to build software that works on embedded devices using the .NET nanoFramework, a free and open-source framework for writing C# for microcontrollers. Whether you are working on an embedded electronic device or an Internet of Things (IoT) device, this book will help you develop software efficiently (and cheaper) when compared to traditional methods. By using C# along with the tools and features of the .NET ecosystem, you'll find a pleasant, friendly, and efficient developer experience which will boost your productivity and decrease the time to market. You can address customer requirements in a much more flexible manner, come up with a proof of concept in a very short time, and even move between hardware platforms without having to rewrite code. What You Will Learn Explore the entire .NET nanoFramework Develop software for Internet of Things (IoT) devices including sensors,

wearables, robotics, and more Leverage a wide range of cheap boards from Espressif (ESP32), ST Microelectronics, Silicon Labs, Texas Instruments, and more Harness Visual Studio IDE and C# to quickly and cheaply write, debug, and deploy code.
