



Micro:bit IoT In C

Harry Fairhead

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The **BBC micro:bit** is capable of taking on a variety of roles including that of a powerful IoT device. In order to gain full access to its features and to external devices, however, you need to use C which delivers the speed crucial to programs that communicate with the outside world.

Written for the electronics enthusiast, **micro:bit IoT In C** starts with a first “Hello Blinky” C program with the mbed online compiler, we move to the desktop to using an offline approach using the yotta development environment plus NetBeans to make things even easier. Now we are ready to discover how to control the micro:bit’s I/O lines, exploring the basis of using the GPIO. For speed, however, we need to work directly with the raw hardware and also master memory mapping, pulse width modulation and other more sophisticated bus types.

From here we can start connecting sensors using first the I2C bus, then by implementing a custom protocol for a one-wire bus, and eventually adding eight channels of 12-bit AtoD with the SPI bus, which involves overcoming some subtle difficulties. We then look at serial connections, one of the oldest ways of connecting devices but still very useful. The micro: bit lacks WiFi connectivity but using a low-cost device we enable a connection to the Internet via its serial port which allows it to become a server.

To conclude we look at the micro:bit’s LED display. This may only be 5x5, but it is very versatile, especially when you use pulse width modulation to vary the brightness level, something we demonstrate in a classic game, written of course in C.

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The reason why? Because this Micro:bit IoT In C is an unordinary book that the inside of the book waiting for you to snap it but latter it will zap you with the secret the item inside. Reading this book close to it was fantastic author who all write the book in such remarkable way makes the content within easier to understand, entertaining technique but still convey the meaning entirely. So , it is good for you because of not hesitating having this anymore or you going to regret it. This book will give you a lot of benefits than the other book have such as help improving your skill and your critical thinking method. So , still want to hesitate having that book? If I were you I will go to the publication store hurriedly.

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