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The Microcontroller Idea Book is a hands-on guide that presents practical designs for use in data loggers, controllers, and other small-computer applications.

Microcontrollers, or single-chip computers, are ideal for projects that require computer intelligence but don't need the disk drives, keyboard, and full-screen display of a desktop computer

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It was during 1970 and 1971 when Intel was working on inventing the world's first microprocessor, that Gary Boone of Texas Instruments was working on quite a similar concept and invented the microcontroller. Boone designed a single integrated circuit chip that could hold nearly all the essential circuits to form a calculator; only the display and the keypad were not incorporated.

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This way, we can easily check if the circuit and our code works. To control the current through the LED, we also add a current limiting resistor in series with it. Push-Button for Reset. It is very common to have a reset button on a microcontroller circuit. This makes it easy to reset the microcontroller without having to unplug the USB cable.

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