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# Programming The Atmel Atmega328p In C

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 July 12, 2017 by Charles R. Hampton In

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**ATmega328P - 8-bit AVR Microcontrollers**  
The ATmega328 is a single-chip microcontroller created by Atmel in the megaAVR family (later Microchip Technology acquired Atmel in 2016). It has a modified Harvard architecture 8-bit RISC processor core.

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**Programming Arduino with Atmel Studio 7 | Slightly ...**  
We covered details on preparing the Atmega328p microcontroller for programming by flashing the Arduino bootloader on Atmega328p and today's tutorial will be a follow up to that tutorial, as we will look at how to program the boot-loaded Atmega328p microcontroller using the Arduino IDE.. The Atmega328p microcontroller, like any other microcontroller, can be quite tasking to use for a beginner.

**Programming Atmega328p Microcontroller with Arduino**

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In 2006, Atmel released microcontrollers based on the 32-bit AVR32 architecture. This was a completely different architecture unrelated to the 8-bit AVR, intended to compete with the ARM-based processors. It had a 32-bit data path, SIMD and DSP instructions, along with other audio- and video-processing features. The instruction set was similar to other RISC cores, but it was not compatible with ...AVR microcontrollers - Wikipedia

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**ATmega328P Programming Circuit.** A simple programming circuit for the ATmega328P is shown in the photograph below. A schematic diagram, a complete parts list, and construction details are contained in a previous article. You will need the ATmega328P programming circuit as

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