

STEPPER MOTOR PROGRAM:

```
#include <LPC17xx.H>

void delay(unsigned int x);

main()
{
    LPC_SC->PCONP |= (1 << 15);      /* enable power to GPIO & IOCON */

    LPC_GPIO0->FIODIR |= 0x00078000; /* Configure P0.15,P0.16,P0.17,P0.18 as
Outputs*/
    LPC_GPIO2->FIODIR &= ~(1<<10);    /* Configure P2.10 as Input */

    while(1)
    {

        {
            LPC_GPIO0->FIODIR = 0x00088000; /* Write data for clock wise
direction*/
            delay(50000);
            LPC_GPIO0->FIODIR = 0x00044000; /* Write data for clock wise
direction*/
            delay(50000);
            LPC_GPIO0->FIODIR= 0x00022000; /* Write data for clock wise
direction*/
            delay(50000);
            LPC_GPIO0->FIODIR = 0x00011000; /* Write data for clock wise
direction*/
            delay(50000);
        }

    }
}

void delay(unsigned int x) /* Delay Routine */
{
    for(;x>0;x--);
}
```

STEPPER MOTOR INTERFACE:

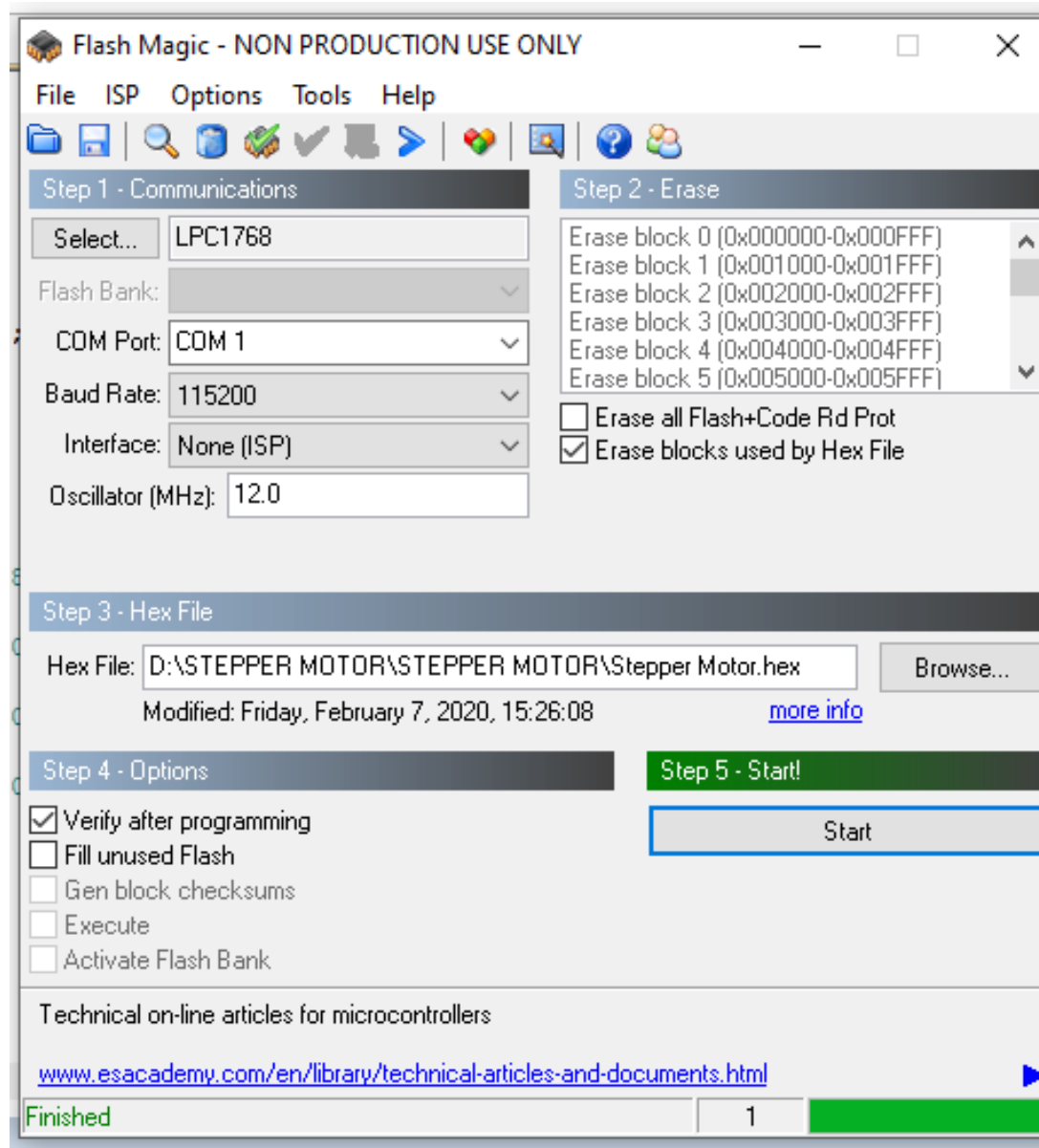
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General Purpose Input/Output 0 (GPIO 0) - Fast Interface

GPIO0

	31	Bits	24	23	Bits	16	15	Bits	8	7	Bits	0
FIO0DIR:	0x00078000											
FIO0MASK:	0x00000000											
FIO0SET:	0x00000000											
FIO0CLR:	0x00000000											
FIO0PIN:	0x7FF80FFF											
Pins:	0x7FF80FFF											

STEPPER MOTOR IMPLEMENTATION:



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