Programming your 8051s for the project

Programming your Flash-programmable 8051 is pretty easy. Here is a quick guide. If you need more help, please ask:

- **Programmer**: The best programmer is in EECH 213 – the senior design lab. It is called the Xeltek Superpro and is connected to the computer at lab station 8. If you need help getting into the senior design lab please let me know.
- **Insert your chip into the programmer**. The ZIFF socket has a little lever that opens and closes the socket. I believe the lever goes up to open the socket. Place the part in the socket and then close it. If I remember correctly, pin 1 of the chip goes on the upper left hand corner of the socket. The programmer software will let you know if you've got it wrong (next step).
- **Start the program SuperPro 5 for Win95**
    - o **Select device** (Device>select then Atmel AT89C1051 – if you bought the part from Eagle). You could also use the "autodetect" option.
    - o **Load your hex file** (File>load. Select your file. Load it as an Intel hex file)
    - o **Run the programmer**
        - ▪ **Erase chip** (select erase then run)
        - ▪ **Program chip** (select program then run)
        - ▪ **Verify chip** (select verify then run)

        If everything came out OK, the software should respond to each of the above steps should respond with "Success" or "OK". If it says "failure" or a window pops up, something is wrong.

That's it!