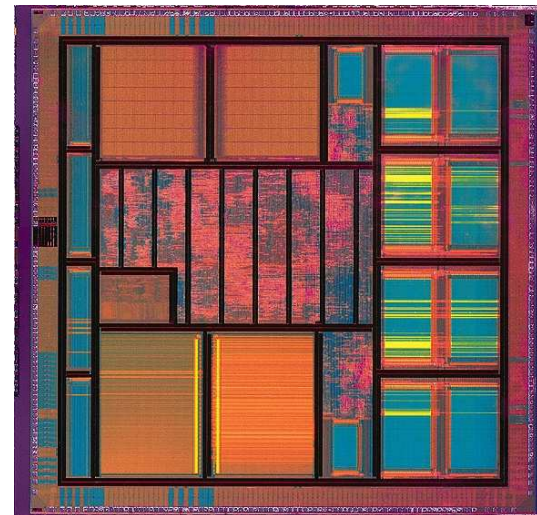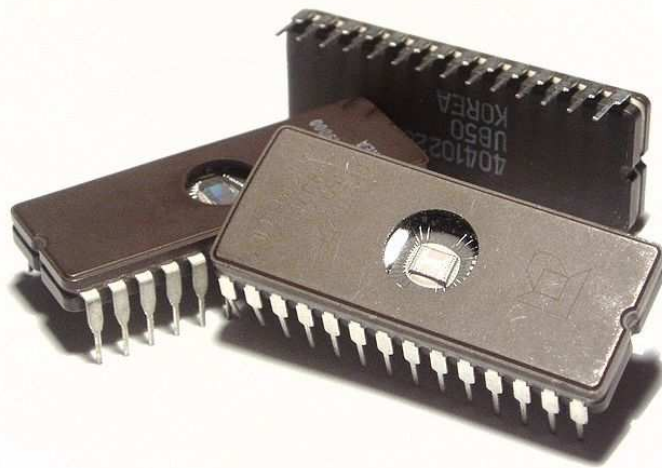# Exploring Computer Science

Integrated circuits
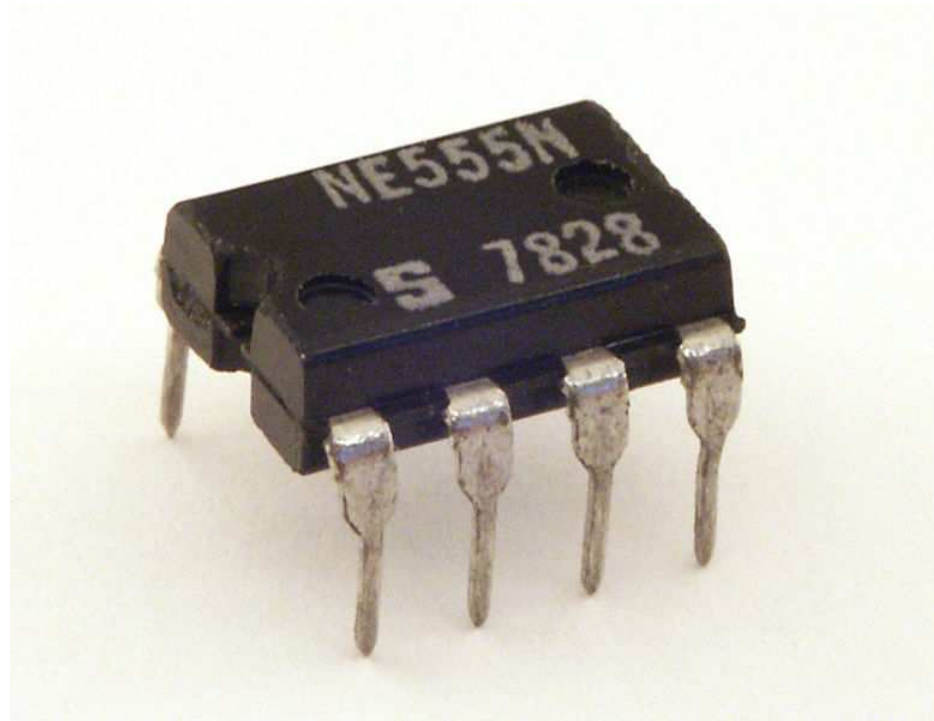
Chip

- Integrated circuit, microchip
- Miniaturized circuit
- Built on a semiconducting wafer

555 timer

- Very popular chip
- Can generate a pulse, act as a timer

555 as pulse generator

- Goes from high (+5V) to low (0V) and back
- See demo at http://falstad.com/circuit/

Changing the pulse rate

- Bigger capacitor means more time between pulses
- Two of the same resistor means same time on and off
- Different resistors means irregular flashing