CPU Registers

- **Memory Address Register (MAR)**
  - is used to store the address to access
- **Program Counter (PC)**
  - Is connected to the internal address bus, it holds the address in memory of the next program instruction.
  - Notice that it doesn't connect directly to the memory, but must go via the MAR. (The PC is special in that it is both a register and a counter. More later.)
- **Stack Pointer (SP)**
  - is connected to the internal address bus and is used to hold the address of a special chunk of main memory used for temporary storage during program execution.

© *Sungwoon Choi*
2018