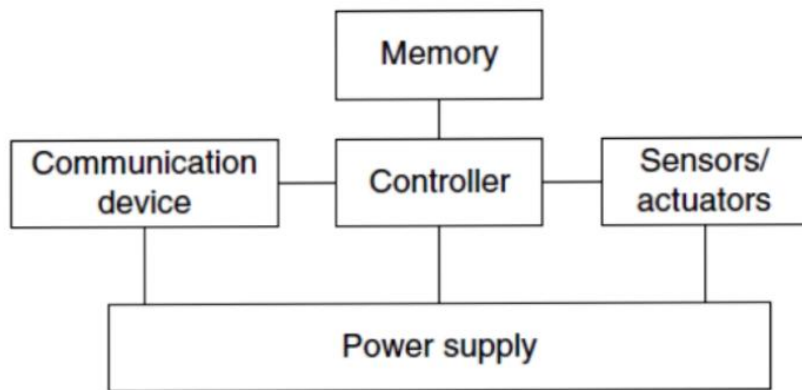


Single node architecture



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Single node architecture

- **Controller** A controller to process all the relevant data, capable of executing arbitrary code.
- **Memory** Some memory to store programs and intermediate data; usually, different types of memory are used for programs and data.
- **Sensors and actuators** The actual interface to the physical world: devices that can observe or control physical parameters of the environment.
- **Communication** Turning nodes into a network requires a device for sending and receiving information over a wireless channel.
- **Power supply** As usually no tethered power supply is available, some form of batteries are necessary
- to provide energy. Sometimes, some form of recharging by obtaining energy from the environment is available as well (e.g. solar cells).