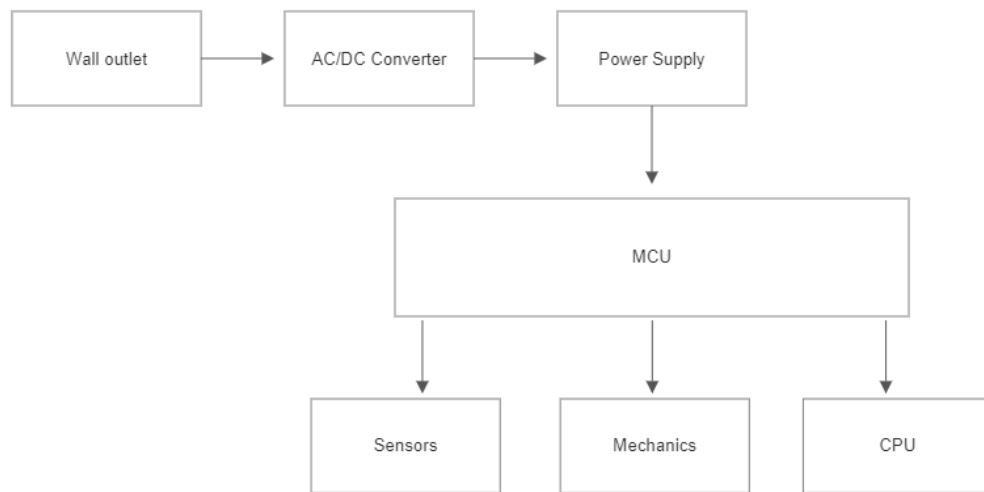


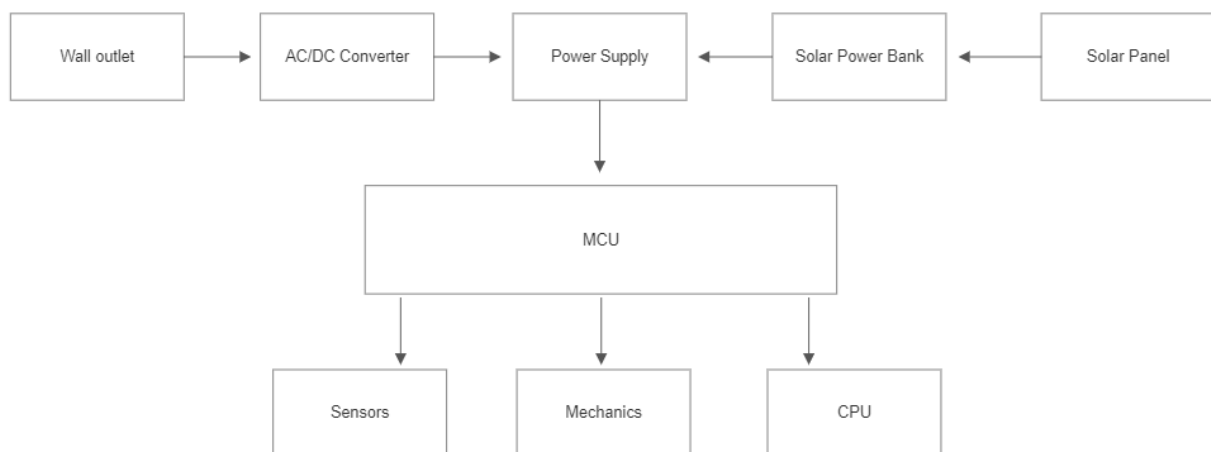
## **Power Sub-System**

- Choice of two sources of power: Solar or a simple plug-in into a wall outlet
  - Solar Power Bank vs. Solar Charge Controller
    - Solar Panel Charger vs. Rechargeable batteries
- Providing proper power to sensors, CPU, mechanical systems
  - Voltage Regulators
- If using a wall outlet, we must have a voltage converter
  - AC/DC power converter

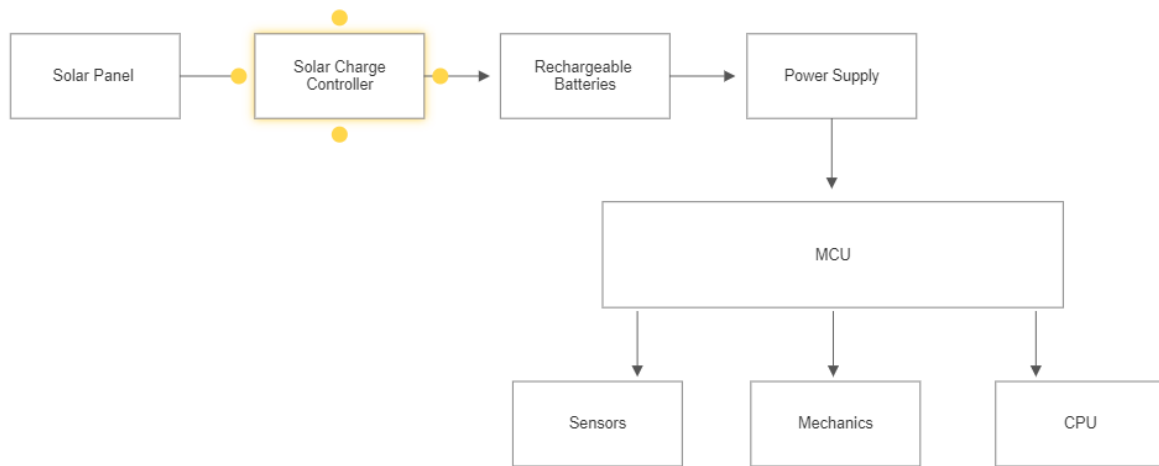
There are multiple routes we can go with this when it comes to the power system. These include having our garden be completely powered by a wall outlet, wall outlet and solar, or have it completely solar. Our MVP would be to have it powered by a wall outlet and from there it would go through an AC/DC converter, voltage regulators, and then to the correct components. If powered by an outlet and through solar, the way the system would work is by having it powered by a wall outlet during the day while a solar power bank is being charged. Then at night, the solar power bank would power the garden. An AC/DC converter and regulators would still apply to this scenario. The last choice is using only solar power and with this we would need a solar charge controller and rechargeable batteries. We would not need an AC/DC converter but regulators would still need to be in place to properly power components.



Power System 1



Power System 2



Power System 3