MATLAB Input/Output to Peripherals
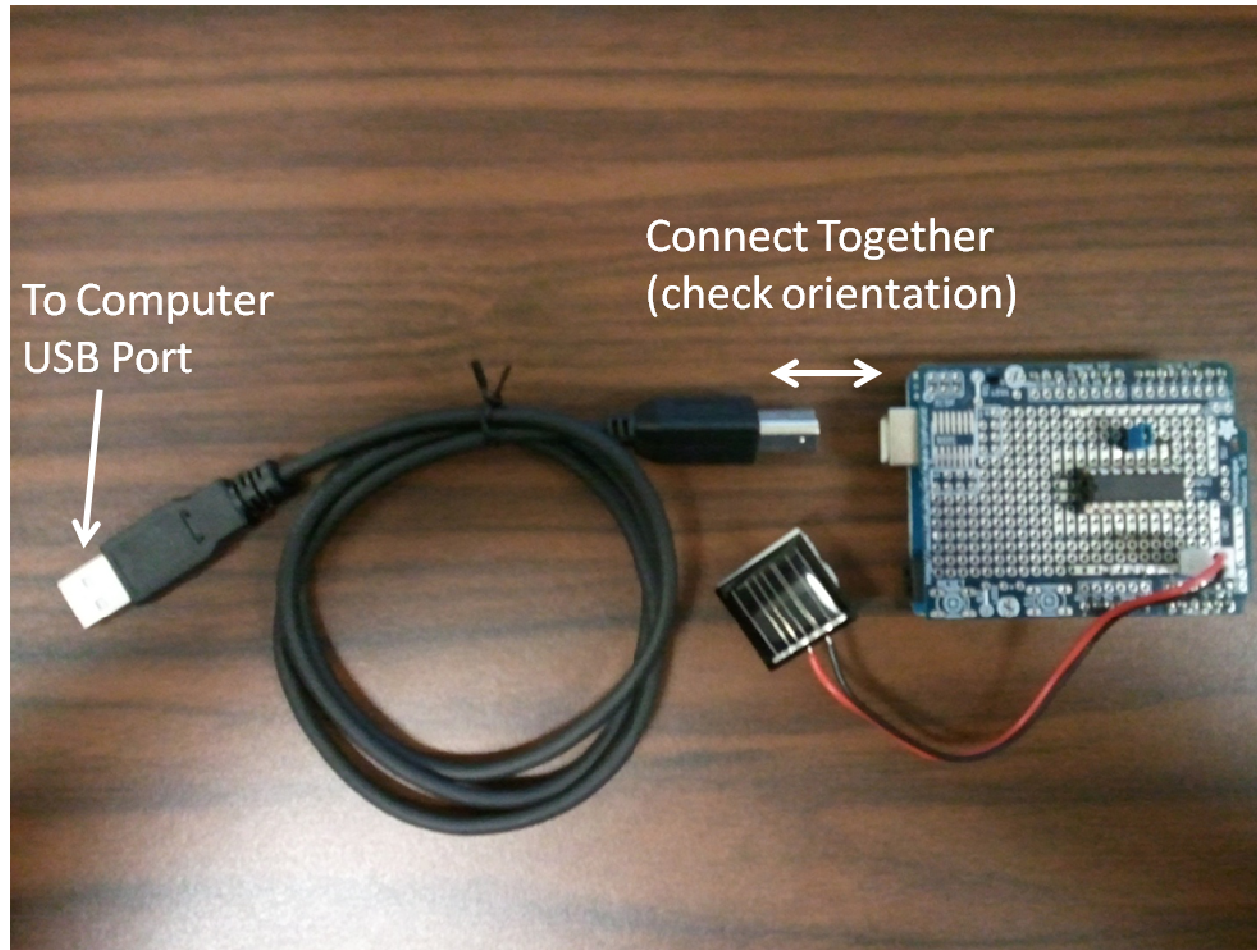
Input From Peripherals
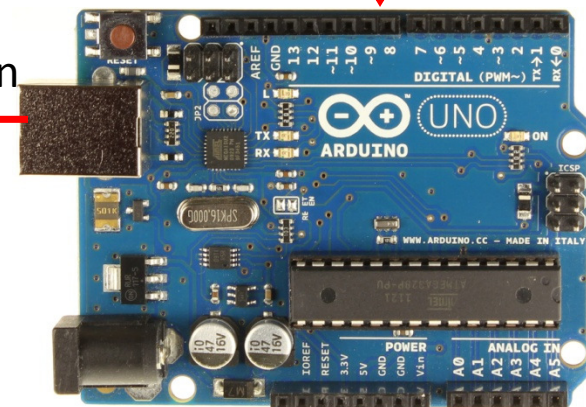
- Getting data from hardware

MATLAB Script

```
…
% make connection
connect('COM3');
…
…
power = get_solar_panel_power()
…
tilt = get_solar_panel_tilt()
…
load = get_solar_panel_load()
…
```

Serial Communication

Output to Peripherals

- Controlling the hardware

MATLAB Script

```
…
…
…
current_power = get_solar_panel_power();
if current_power < acceptable_power
        …
        new_tilt = 47;
        set_solar_panel_tilt(new_tilt);
        …
        new_orientation = 23;
        rotate_panel(new_orientation);
end
…
```

Serial
Comm.