

Solar Station



Cristiano Colangelo, Samuel Corecco, Edoardo Riggio, Alfio Vavassori

How to use ML to harness the power of the sun

And why doing it in December is not a great idea

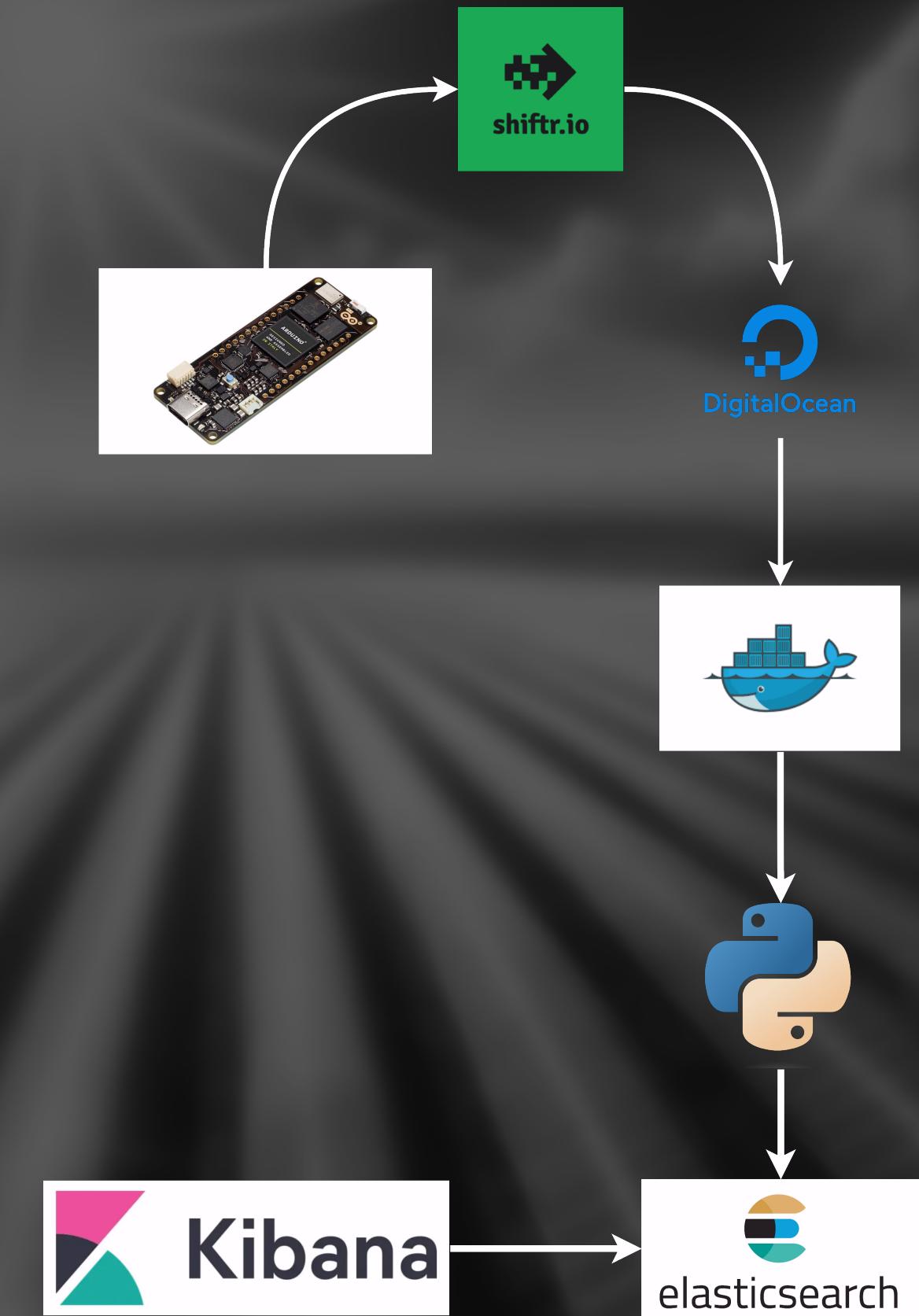
- Edge Computing in the IOT project
- Arduino Portenta board
- Servo motors, Solar panel, Lightmeter, Voltmeter, Weather Station, Antenna
- From initial idea to final prototype

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- MQTT
- Kibana
- Infrastructure/Communication
- Ender 3 V2 Neo

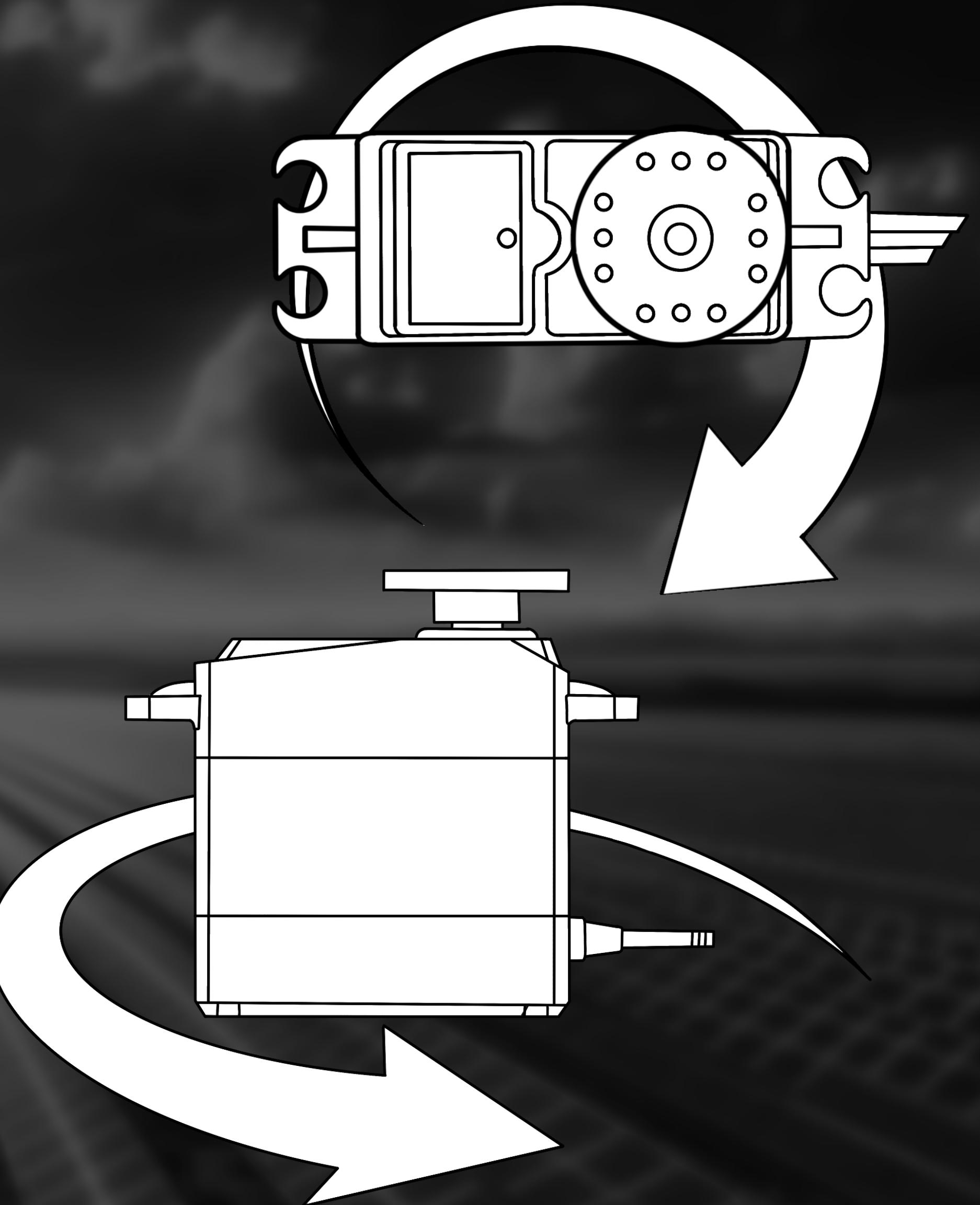


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Servo

How the movement is implemented

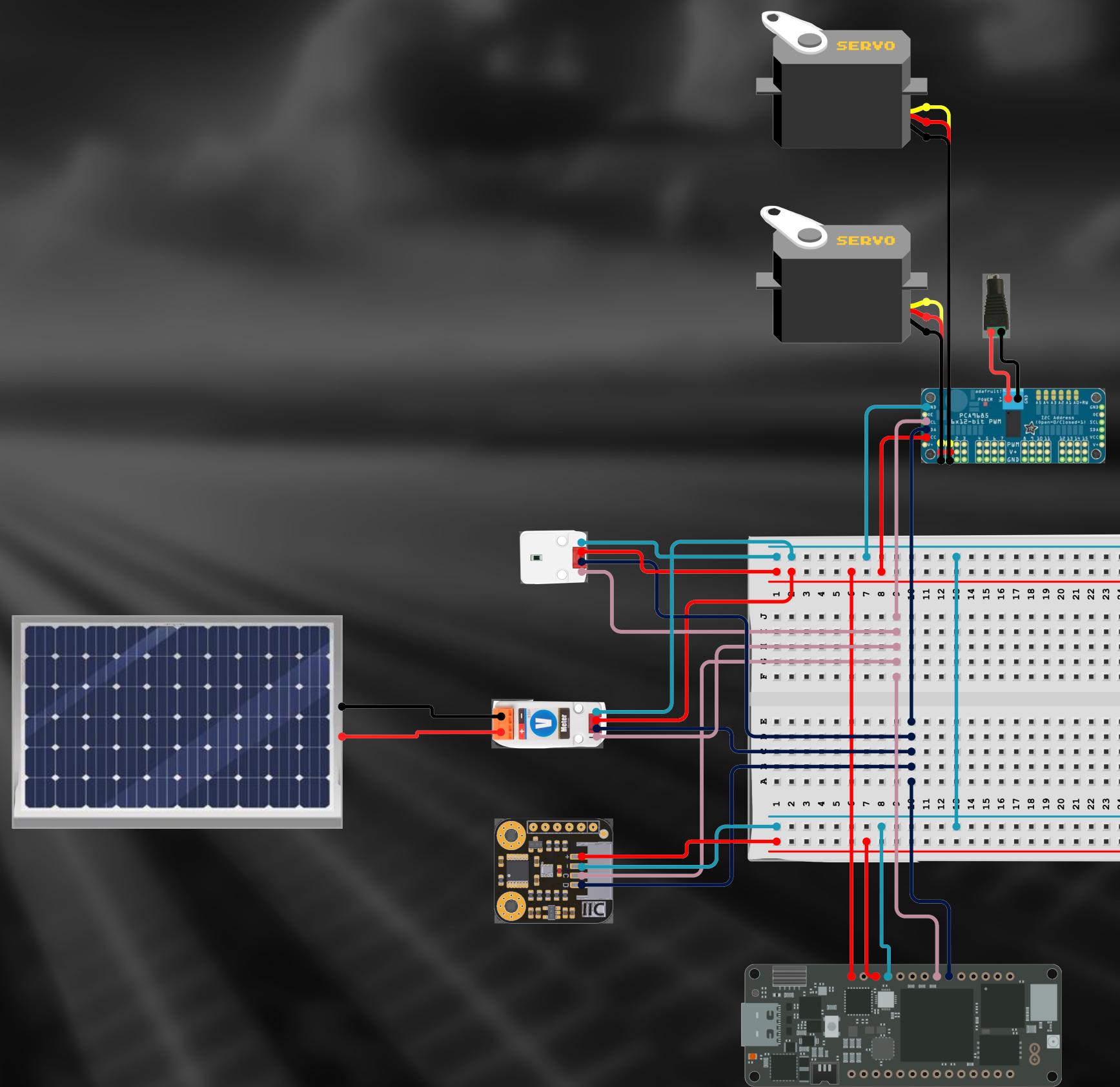
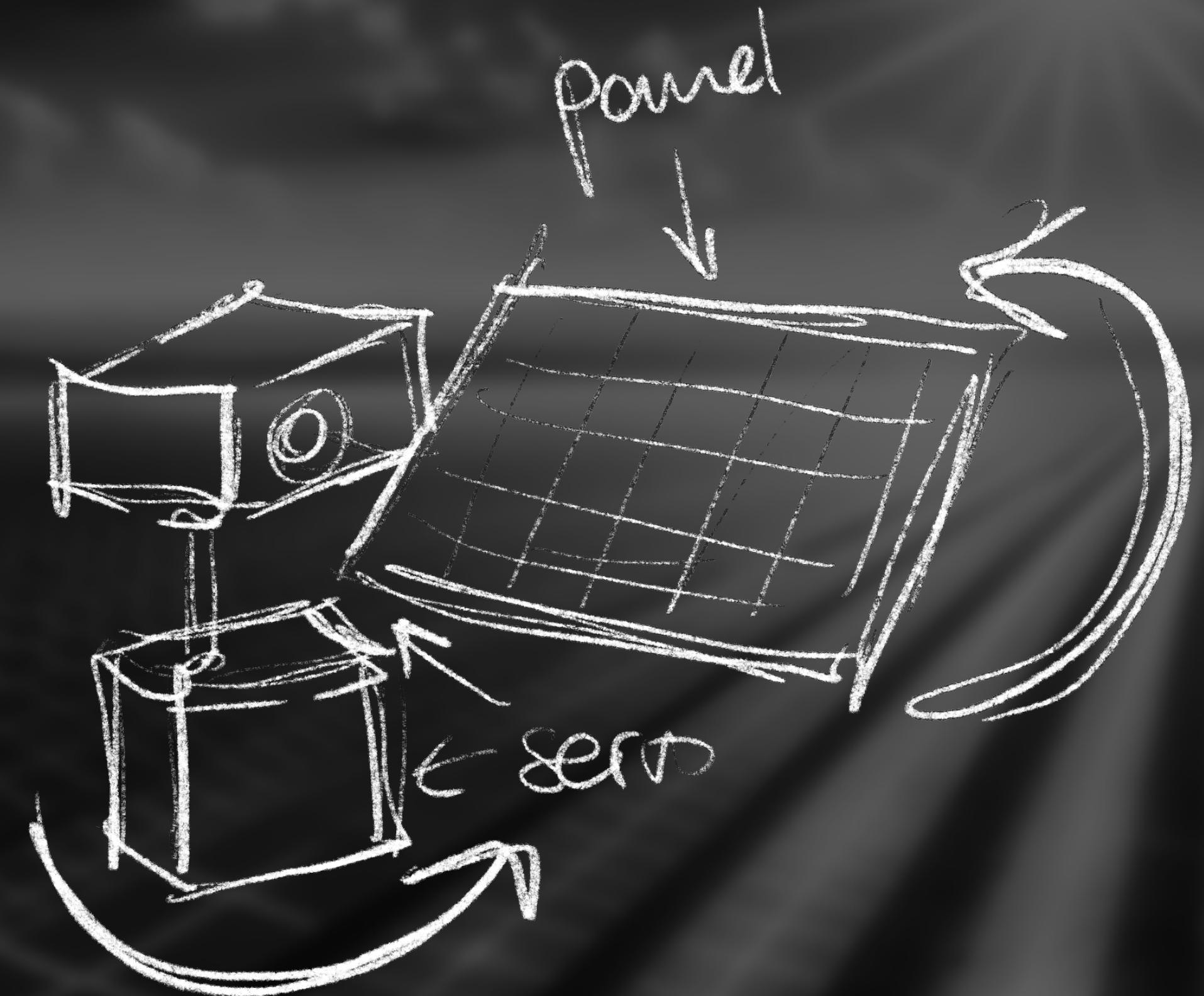
- complete coverage of the sky
- closed - loop Feedback
- PWM
- Power supply



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From sketches

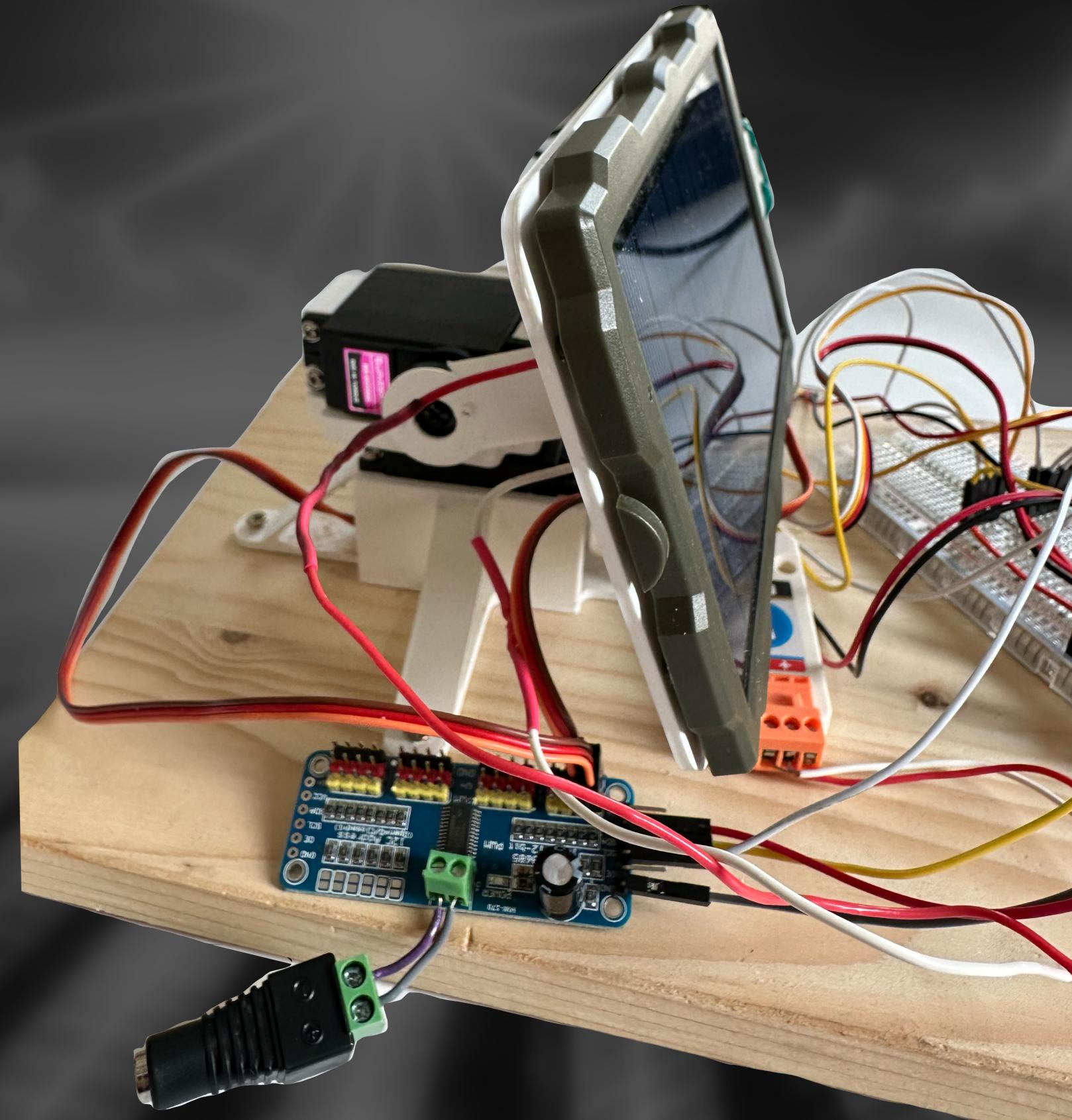
Really good ones, tbh



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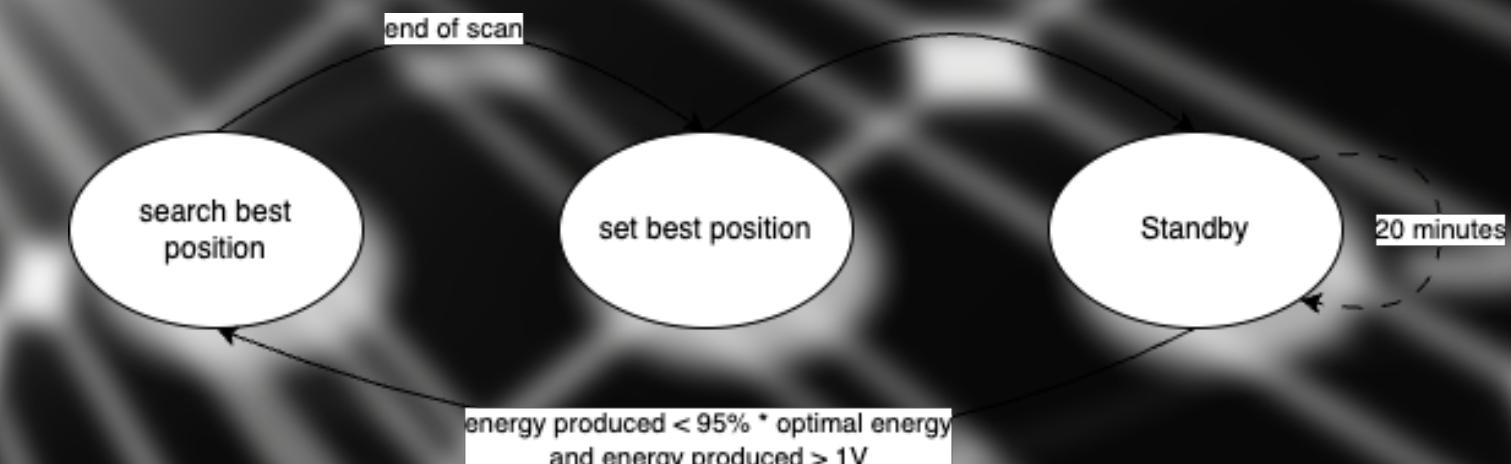
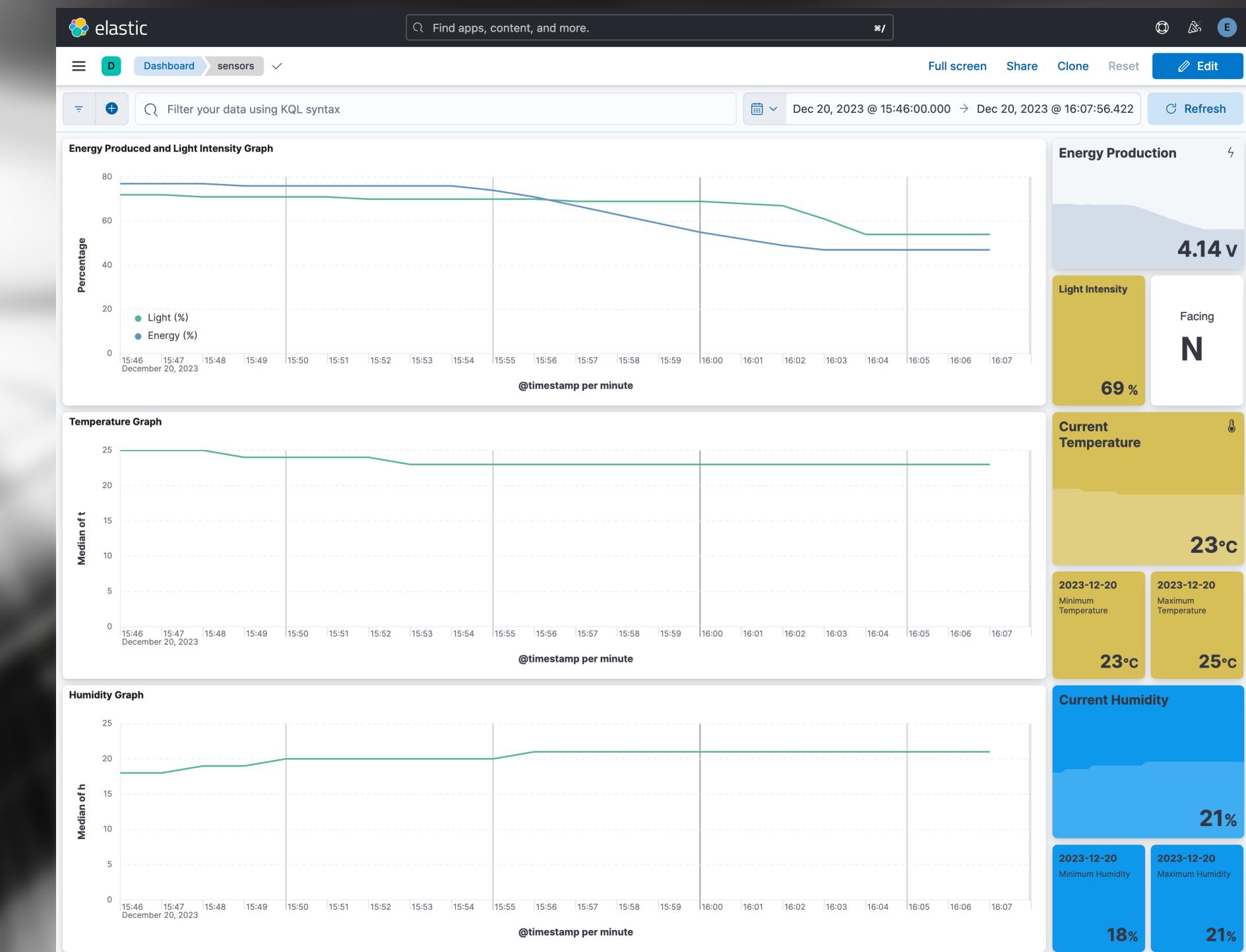
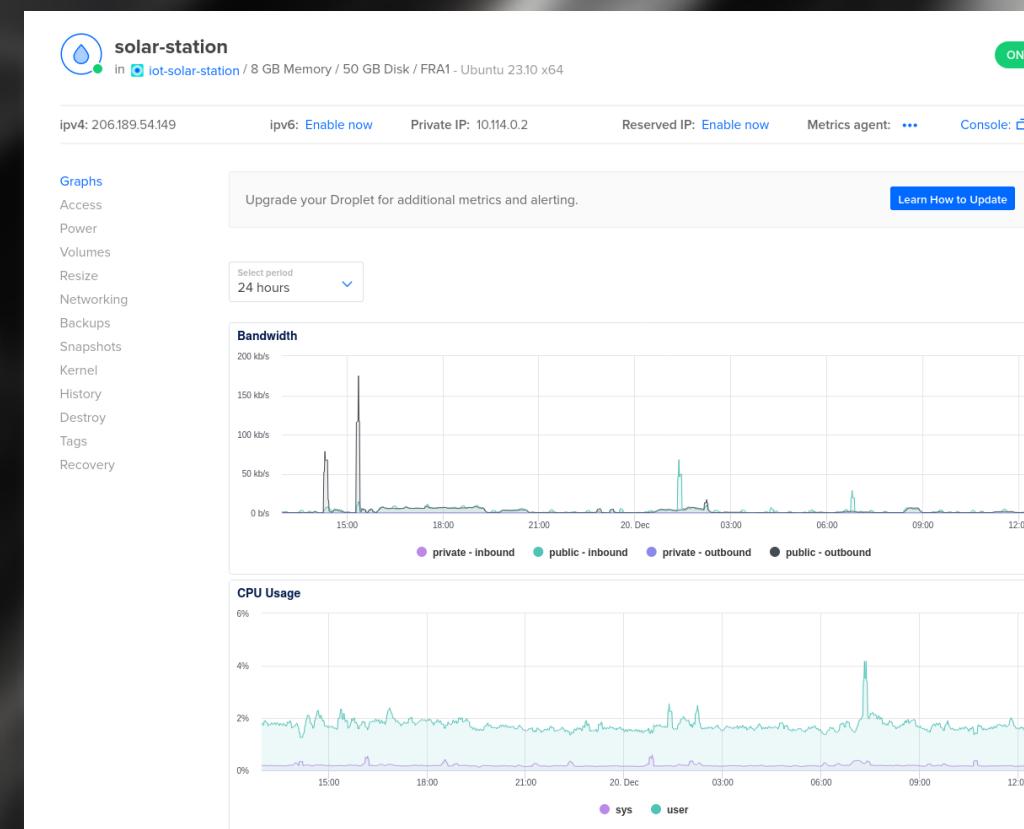
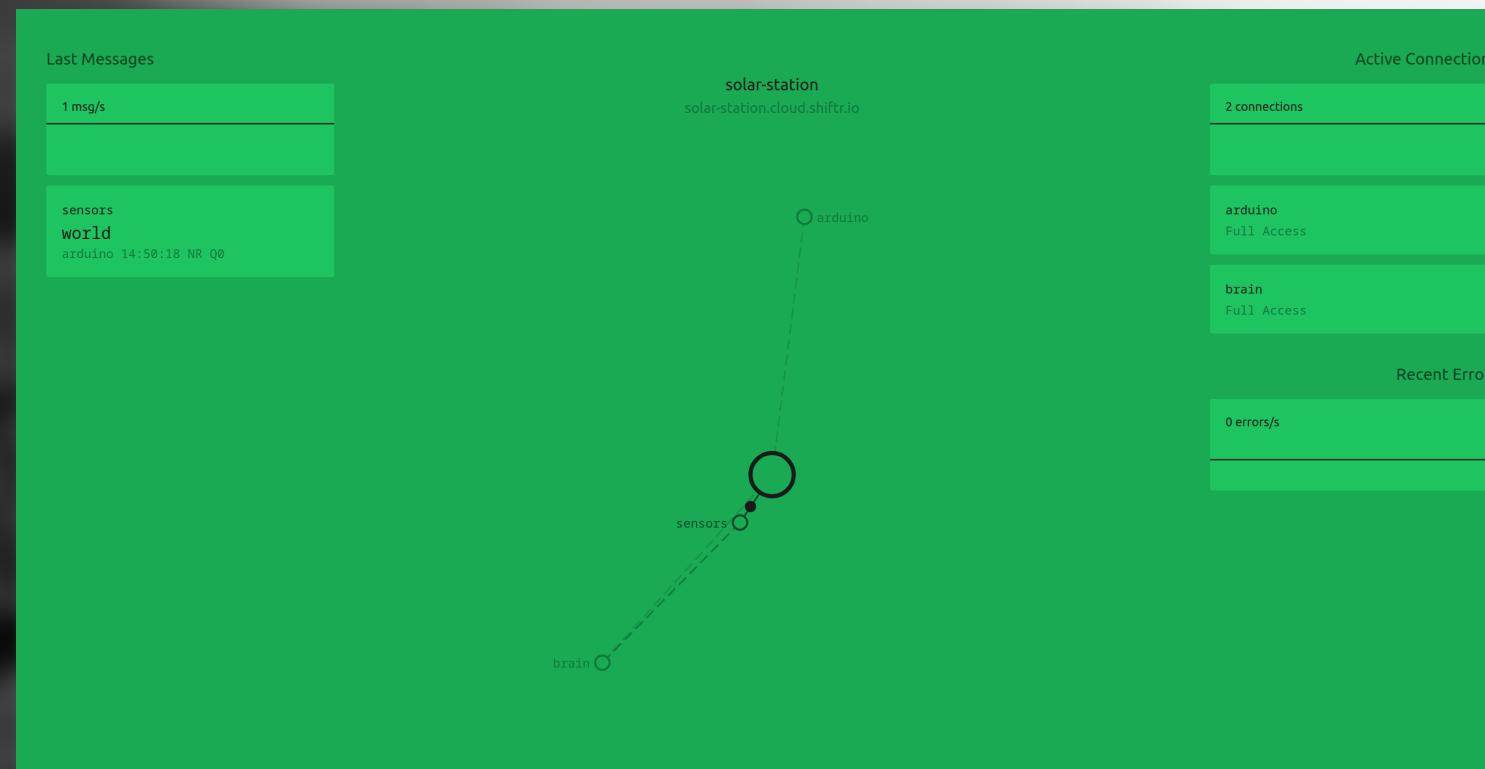
To the prototype

Even better than the sketches!



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Live Monitoring



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