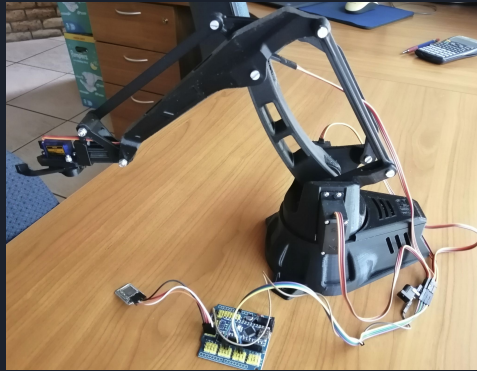# Kids Invoke Innovation

And Maybe Eskom Too

Rohan Schwartz
SARAO

About

- Mechatronics turned Software Engineer

- Enjoy building stuff

Engineering solutions start with a problem

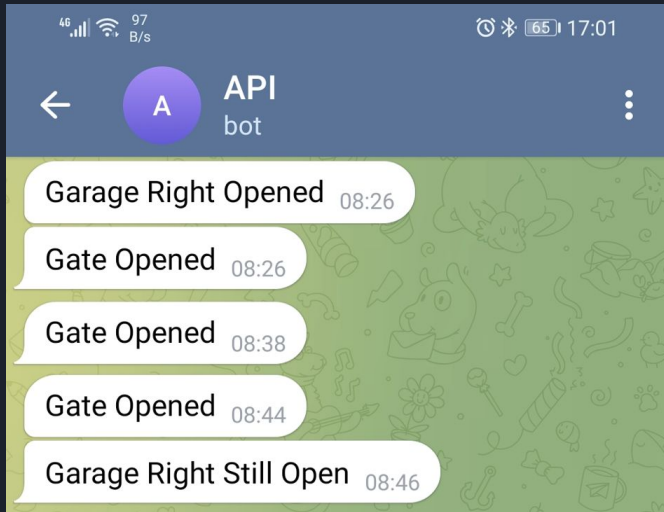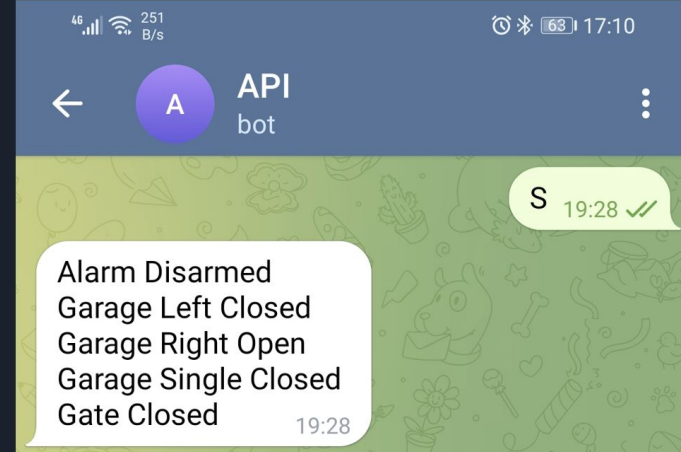# Engineering solutions start with a problem
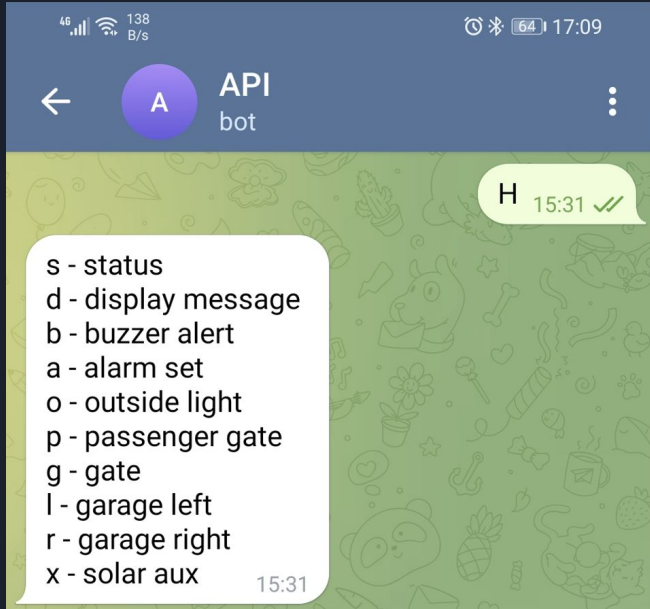
Solution

Problem + RaspberryPi + Python = homepy

- Monitor gate and garage doors

- Control driveway floodlight

- Report states via LCD interface and beeper

Alert messaging

Control and status

Solar

Python libraries

- RaspberryPi - pigpio

- Telegram - requests (python-telegram-bot, Telethon)

- MODBUS - minimalmodbus

- Blynk - BlynkLib

Future dev

- Download weather data and add intelligence for automatically control of non-essential loads (geyser element and pool pump) depending on how much PV there is for the day

Thank you

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