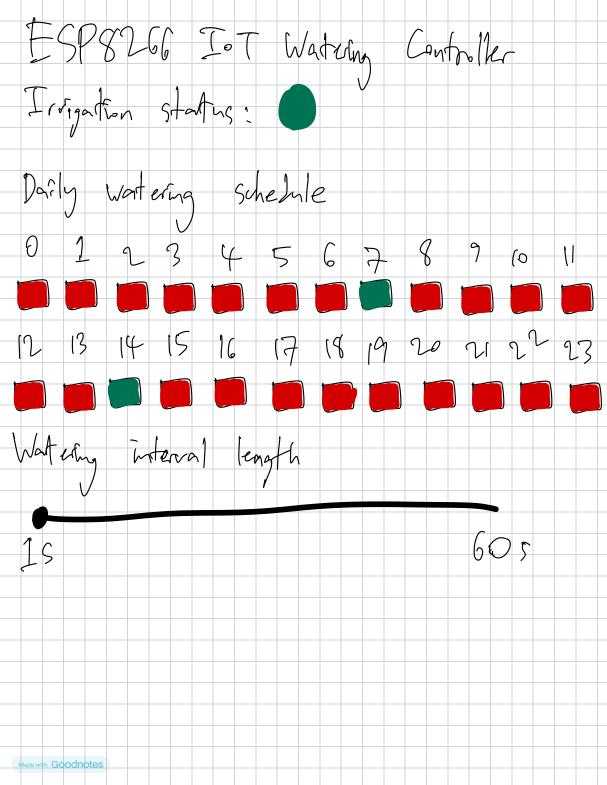
Electronics Project Plans

Simon	Inchen	Que
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ESP8266 based IoT Plant Irrgation Controller 1. Manual hardware control via hardware pushbutton -Press the button to switch the pump on for a userentjustable amount of time. 2. Control over the WAN - set ingation intervals and manually frager origination on the web interface 3. Control over the internet - Set irrighton intervals and manually trager irrigation over an IoT platform. t. Hove LED indicators to indicate power and pump 5- Have an indicator on the web interface to indicate pump relay Andrus.

6. Utilisze an AC senbonersébbe pump to pump waiter fran 7- Run from mains electoristy, but implement all power sowing and deep skeep fundions available and aproprate.

8 - Splanhproofel inclosure 9. Be able to sense the wedness or Lynness of the Soil to antomatically irrigate the soil when it becomes too dry. (optional) 10. Be able to set the invigation dovates anywhere from a minimum of I second to a maximum of 60 seconds. Hardware regulared: 1. ESP8266 or ESP32 microcontroller 2.3V compatible relay
3.3V AC Submassible pump 4. LEDS with current limiting resistors 5. Momentary pershbutton 6 Soil Morsture Sensor (options)



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