



GROWTH

GREENHOUSE REMOTE OPERATION
WITH TEMPERATURE & HUMIDITY

Our Team



Muhammad Hanifan
Project Manager



Fakhrihans Ardiyanto
UI/UX Designer



Monalisa Br. Sidauruk
Hardware Specialist



Darda Drestanala
3D Designer



Aurora Putri Salsabillah Rofii
PCB Designer



Arif Ramadhan
Programmer

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Latar Belakang

Agroberichten Buitenland > Actueel > Nieuws >



Serbia: Even greenhouses are affected by climate change

Nieuwsbericht | 21-03-2025 | 13:56

New diseases in greenhouses due to climate change; the potential of biogas; retail chains boycotted because of prices; news on the sugarbeet harvest - Our weekly briefing on agriculture, food and nature news in Serbia



CLIMATE

Lots of indoor farms are shutting down as their businesses struggle. So why are more being built?



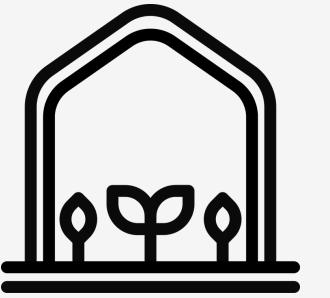
THE ASSOCIATED PRESS

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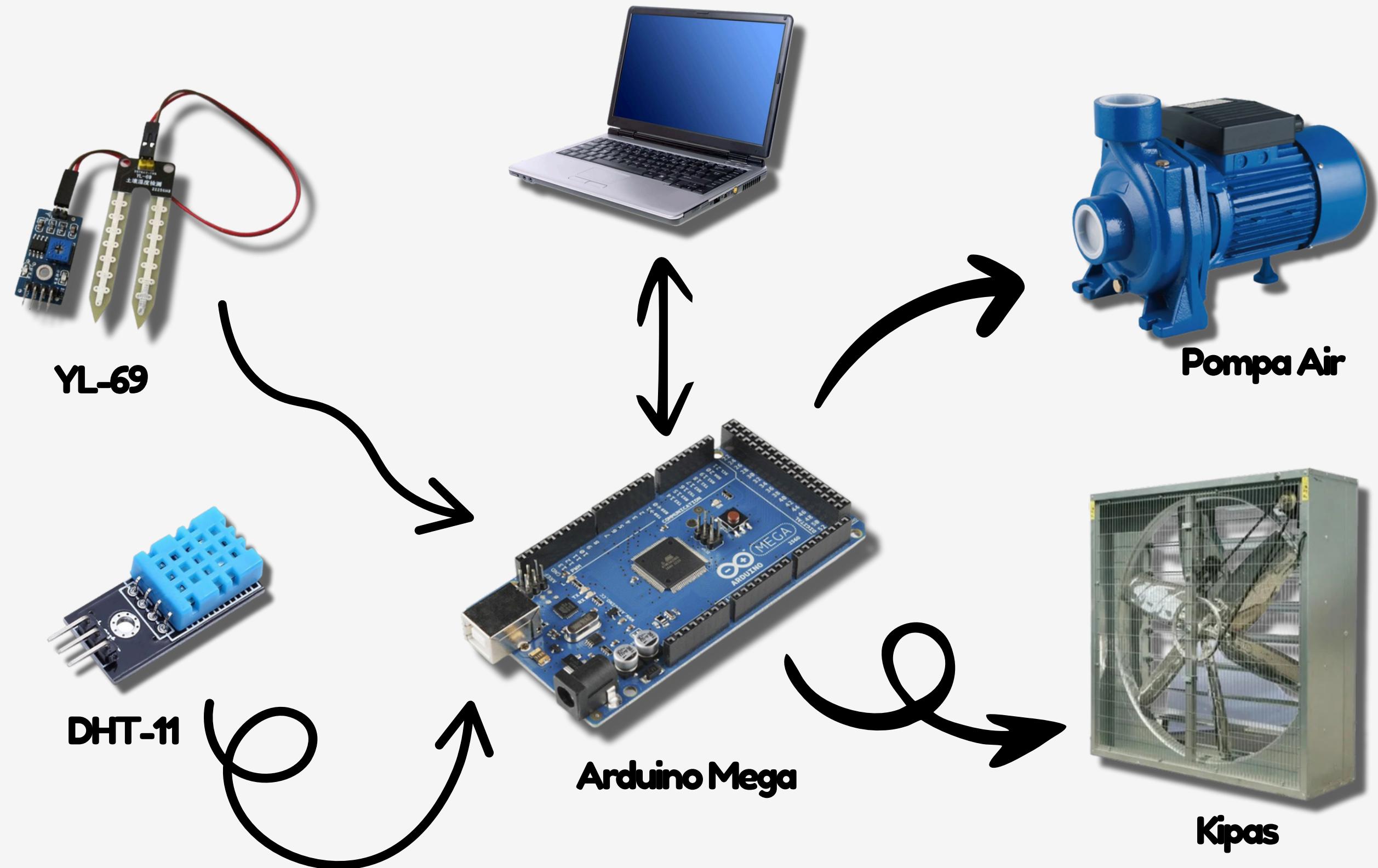
Climate Change Impacts on Agriculture and Food Supply

There are nearly two million farms in the United States, and more than half the nation's land is used for agricultural production.¹ The number of farms has been slowly declining since the 1930s,² though the average farm size has remained about the same since the early 1970s.³ Many industries, such as food service and food manufacturing, are connected to agriculture and depend on farms.



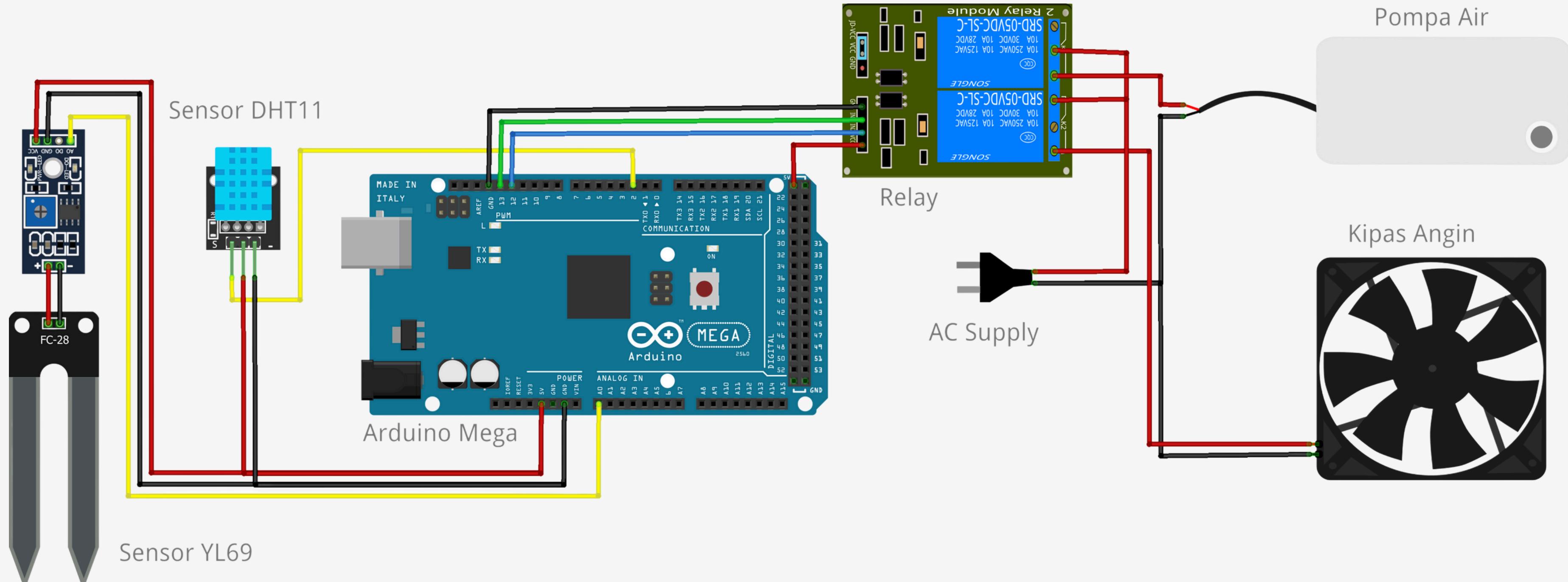
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Blok Diagram

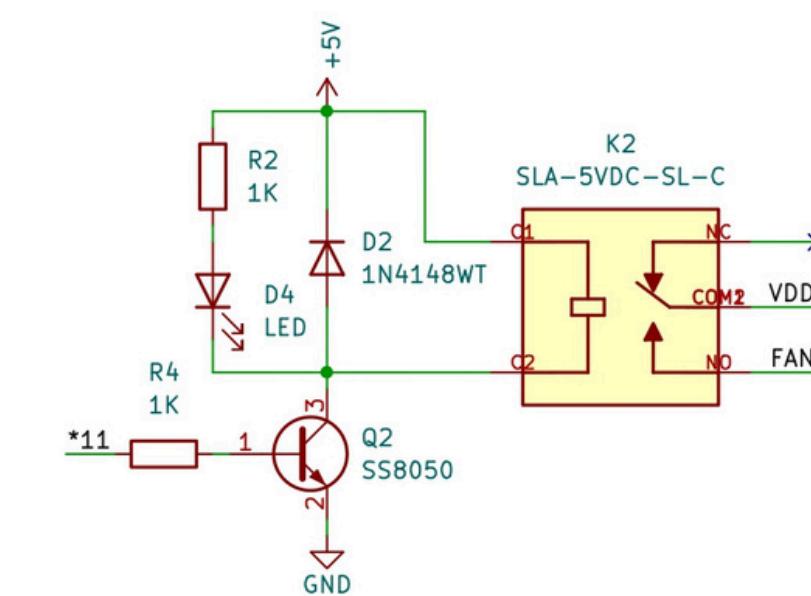
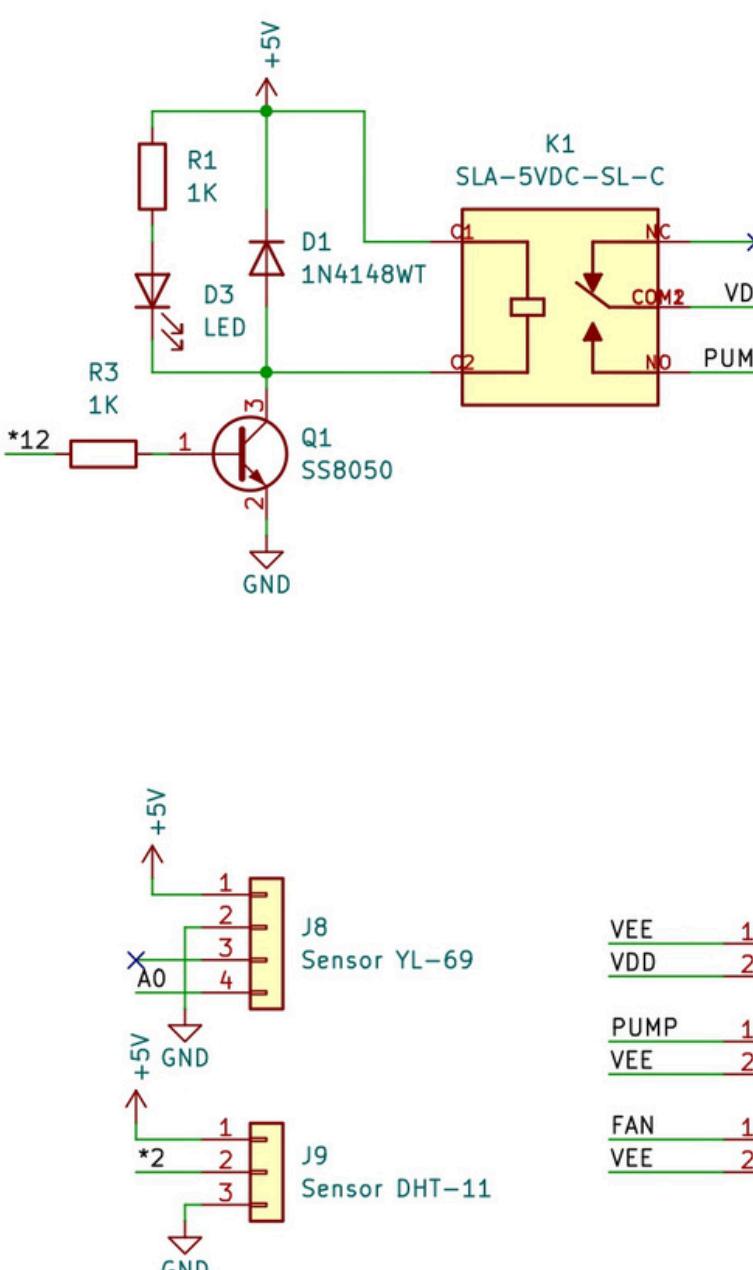
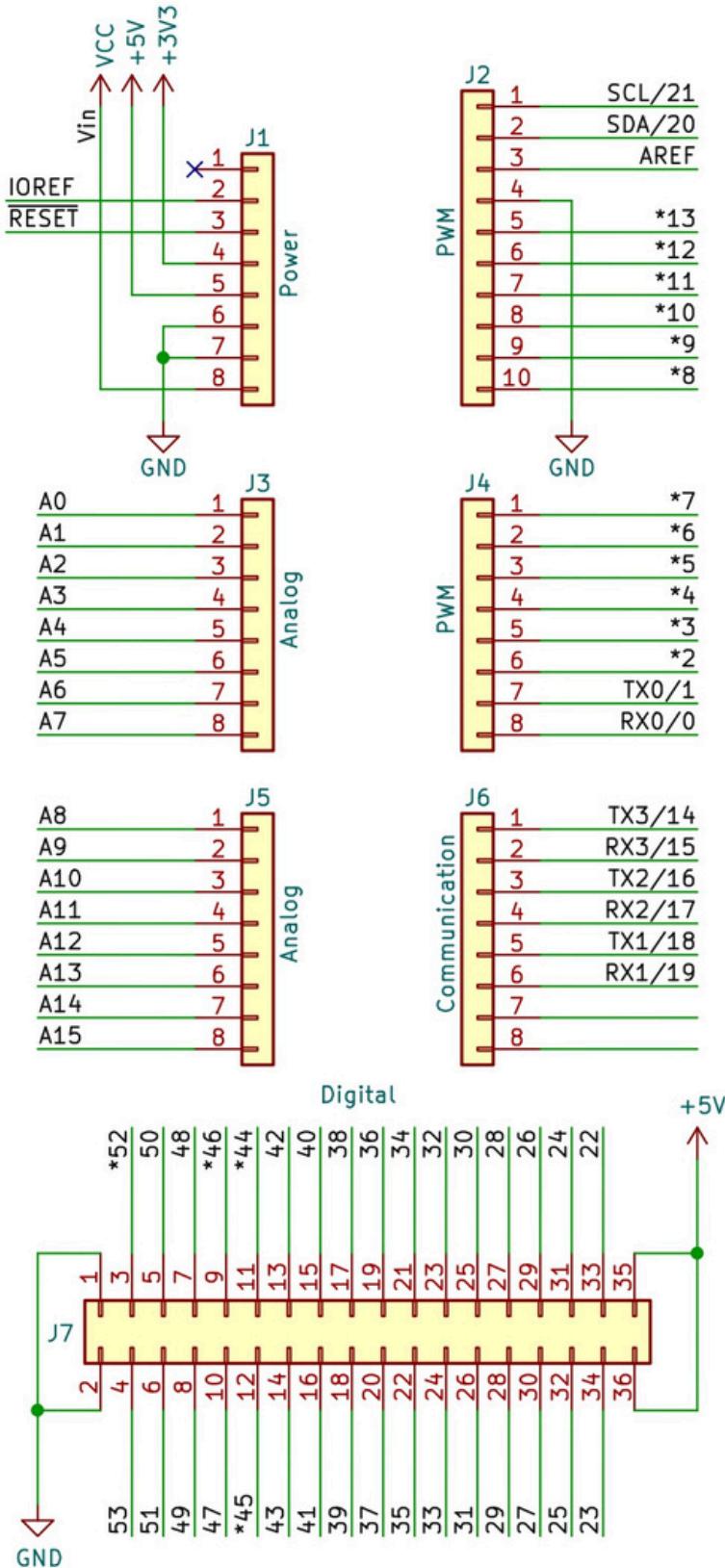


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Hardware



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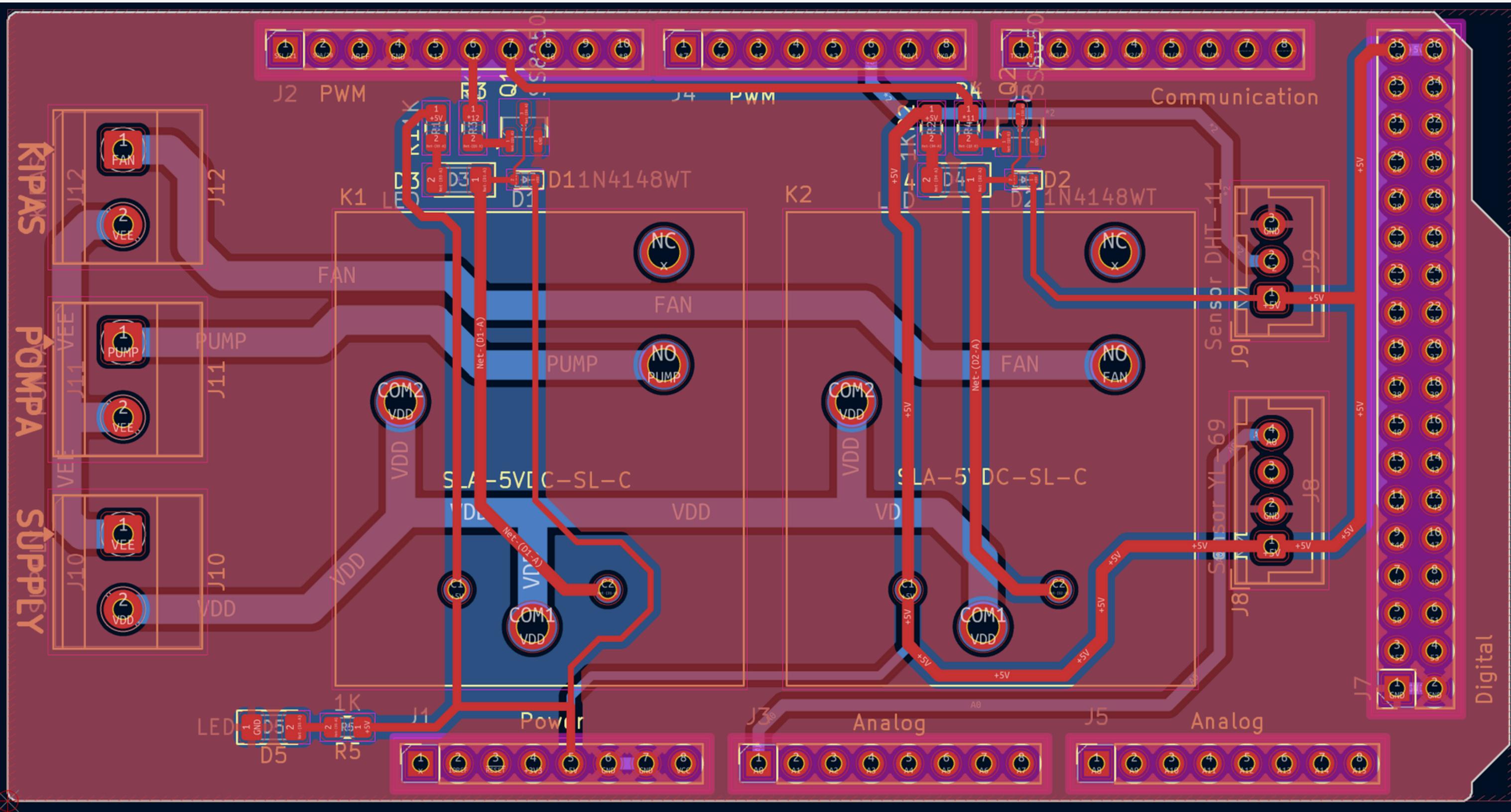


* Indicates a PWM-capable pin

SKEMATIK PCB

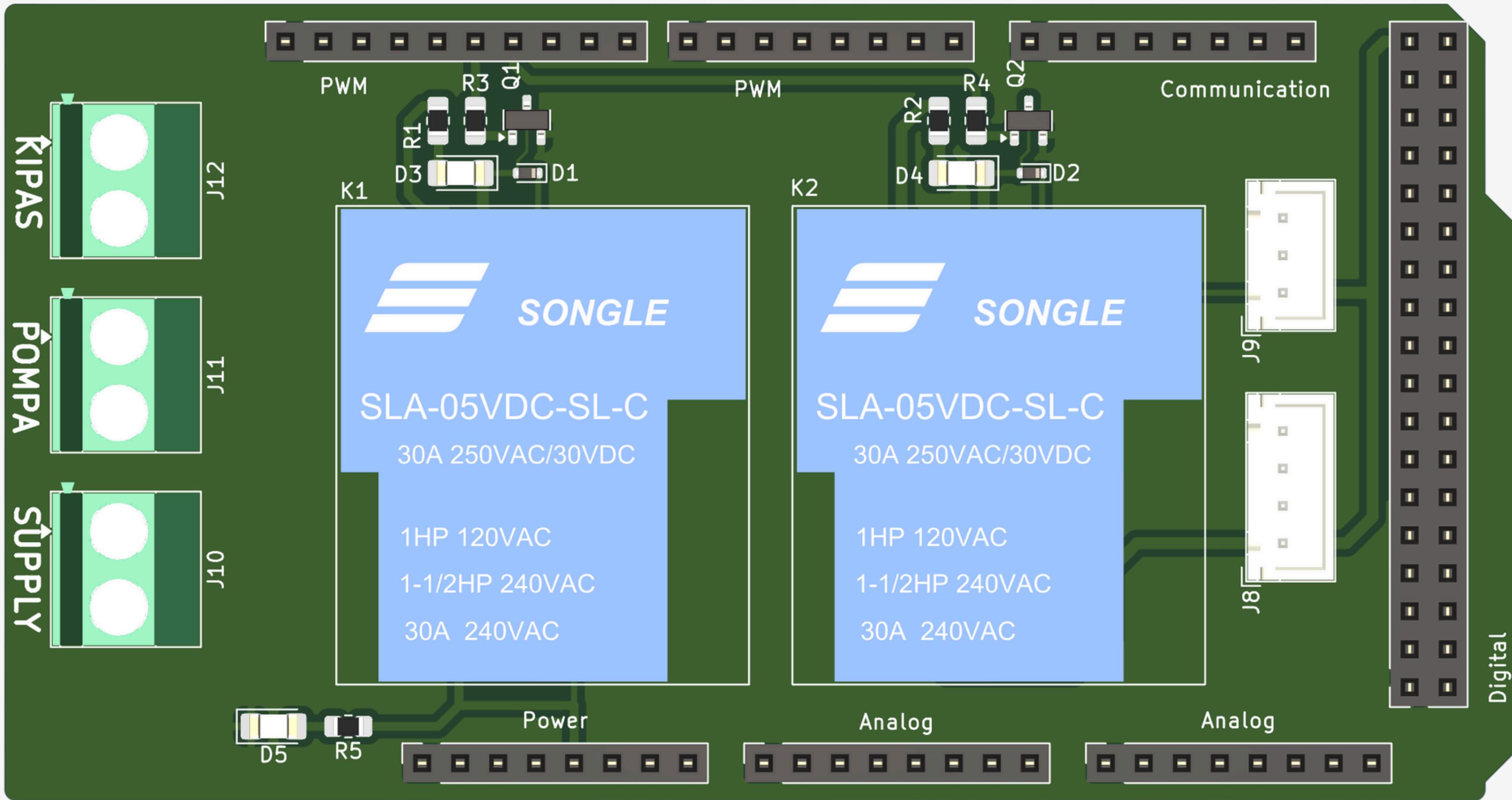
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DESAIN PCB



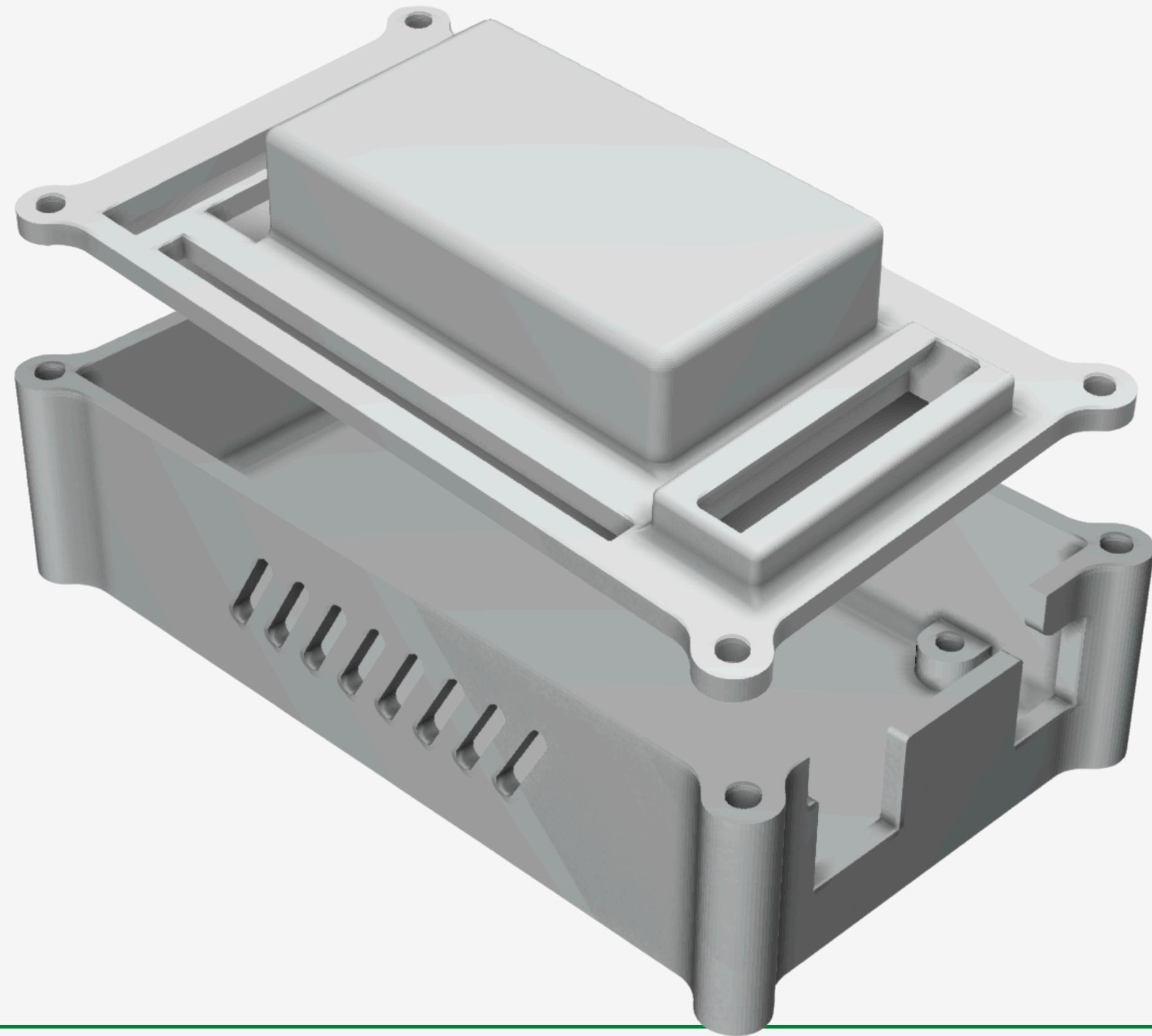
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TAMPILAN 3D PCB



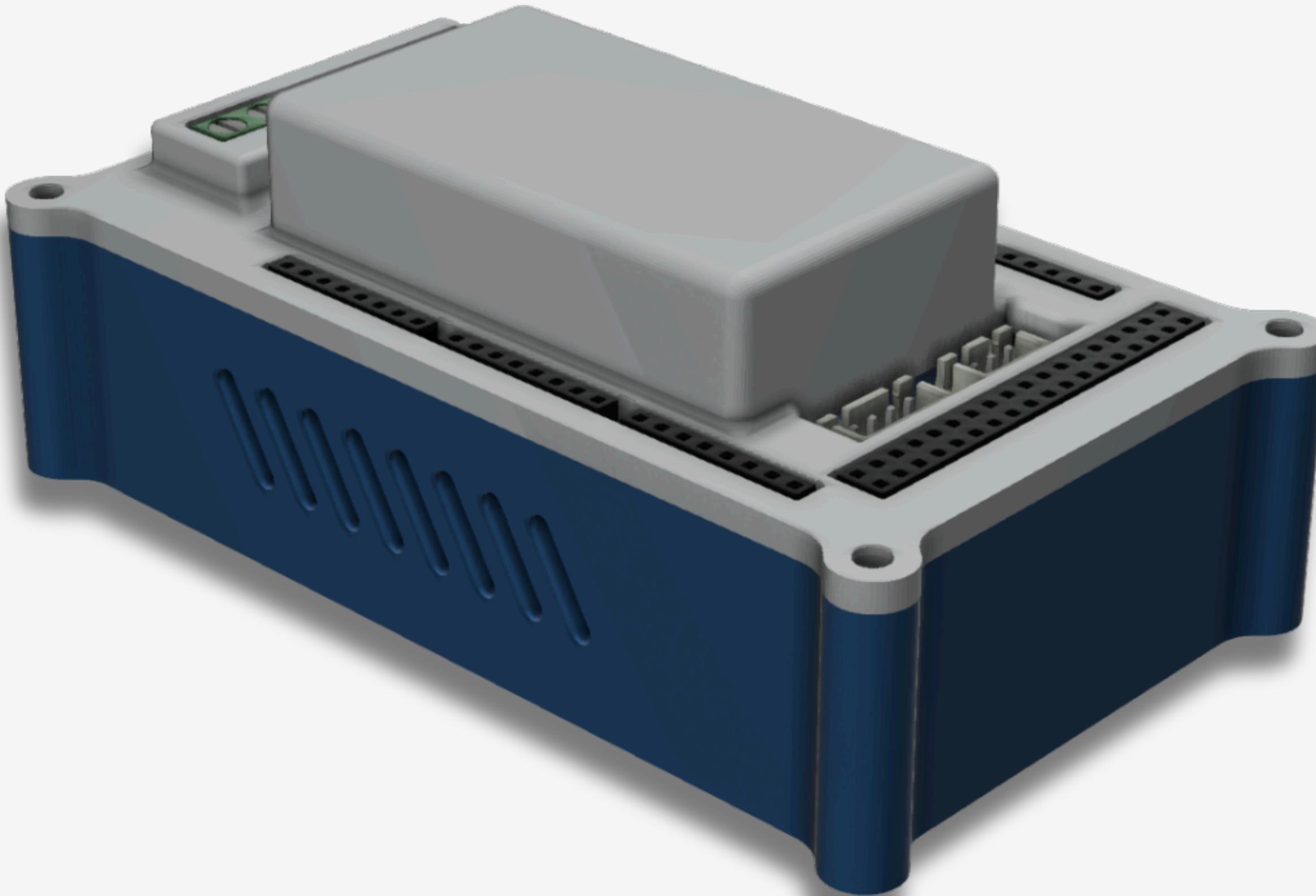
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DESAIN 3D CASE



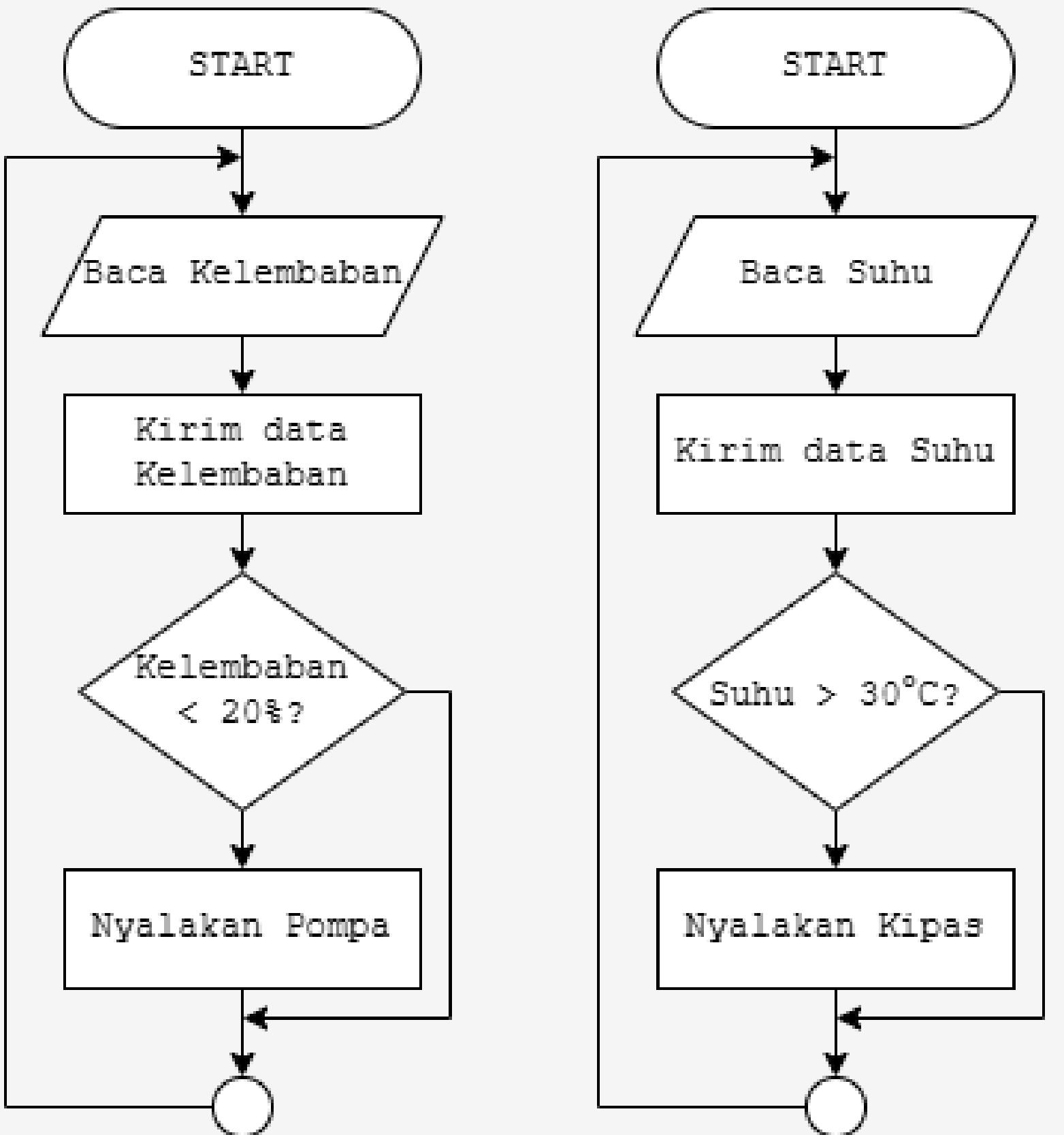
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DESAIN 3D CASE



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FLOWCHART



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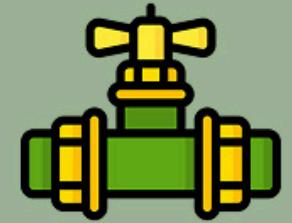
TAMPILAN UI



GREENHOUSE REMOTE OPERATIONS WITH TEMPERATURE & HUMADITY



PUMP STATUS



STATUS: AKTIF

RUNNING HOURS
23 hours

ON

DHT 11



30 °C
80 %

FAN STATUS



STATUS: AKTIF

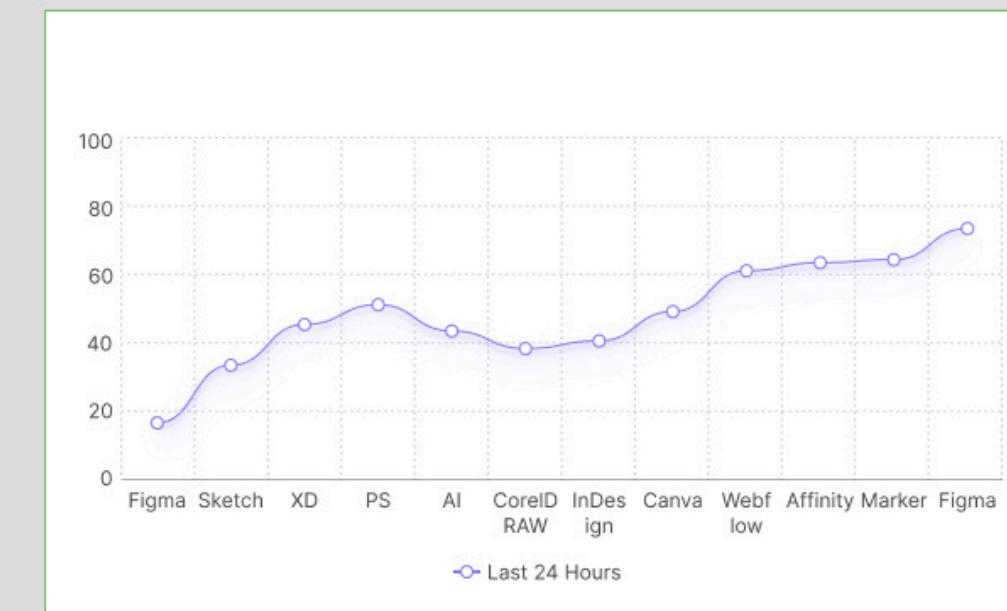
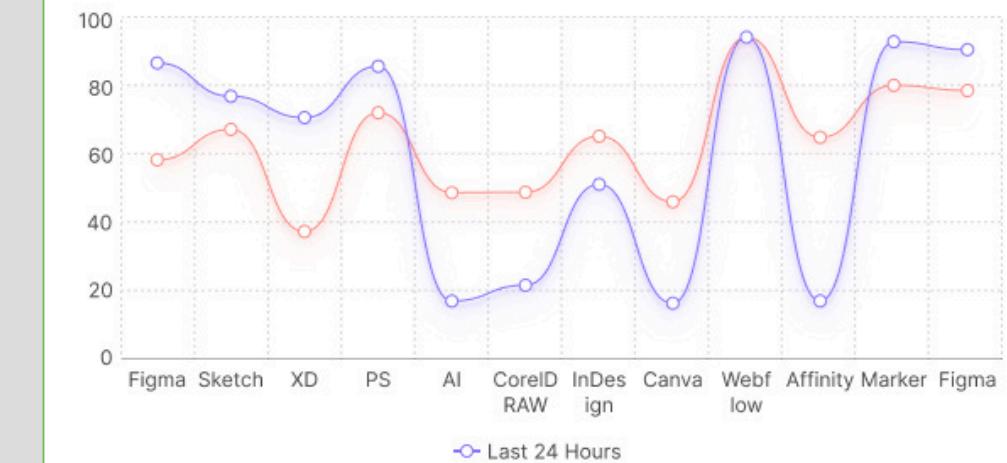
RUNNING HOURS
17 hours

ON

Soil Sensor



80 %



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Pengembangan Kedepannya

- Penambahan IoT untuk Pemantauan Jarak Jauh
- Penambahan RTC untuk Penjadwalan Penyiraman
- Penambahan Desain Casing yang Tahan Air
- Penambahan Baterai untuk Supply Darurat



Thank You

