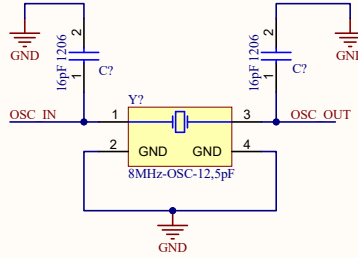
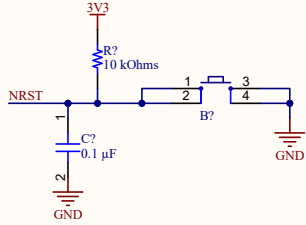


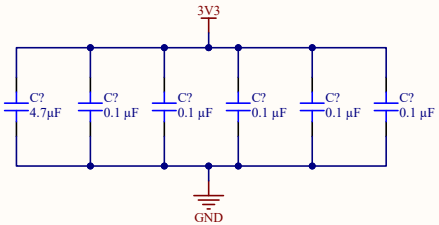
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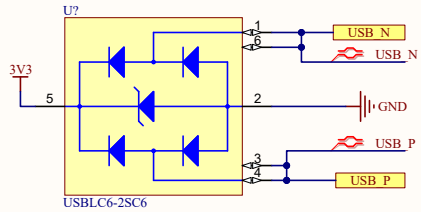
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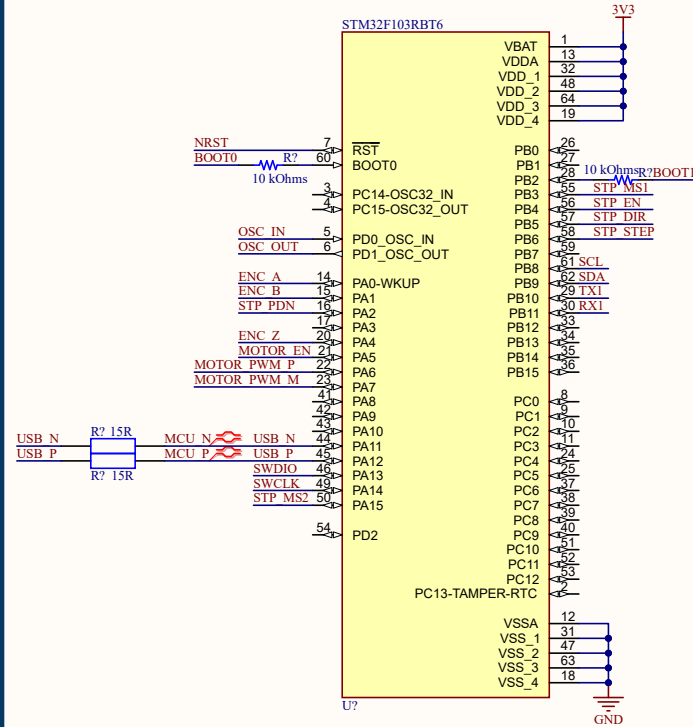
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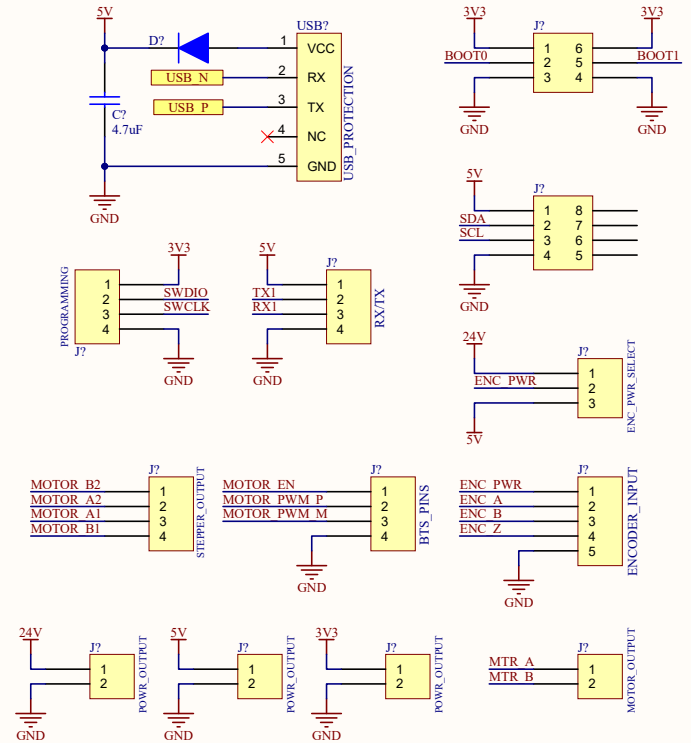
## USB KORUYUCU



## MİKRODENETLEYİCİ BİRİMİ



## KONNEKTÖRLER



**GUZERGAH ROBOTICS**

Project: Teknofest 2024

Project Name: Tarımsal İnsansız Kara Aracı Yarışması

Prepared By: Mustafa Oğuz ATEŞ



## 5VDC-3.3VDC DÖNÜŞTÜRÜCÜ

## 24VDC-5VDC DÖNÜŞTÜRÜCÜ

The diagram illustrates a 24VDC to 5VDC buck converter circuit. The input is 24VDC, which is connected to the VIN pin of the LM2596. A 100µF capacitor (C7) is connected in parallel with the input. The GND pin of the LM2596 is connected to the common ground. The ON/OFF pin is connected to the common ground. The output of the converter is 5VDC, which is connected to the output pin of the LM2596. The output is filtered by a 33µH inductor (L2) and a 35V capacitor (C7). The output is regulated by a feedback network consisting of a 3.1kΩ resistor (R7) and a 1kΩ resistor (R7). The feedback signal is connected to the FB pin of the LM2596. The output is also connected to a 60V diode (D7) in series with the common ground.