

uebung_2.1.5

Student Group

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For a circuit, you need to control two LEDs, but unfortunately, only one digital output is free. The supply voltage of the microcontroller and the board is 5 V . LED1 should have a forward voltage $U_{F,1}=2.3\text{ V}$ (red), LED2 should have a forward voltage $U_{F,2}=2.1\text{ V}$ (green).

1. Design a circuit from the existing voltage levels so that both LEDs can be driven.

Existing voltage levels:

1. Supply: 5 V
 2. Digital output: 5 V , 0 V or high impedance
1. Calculate the values for the other necessary components

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