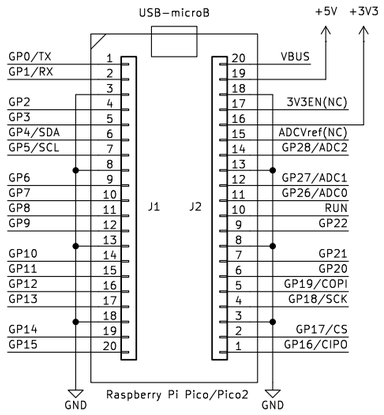

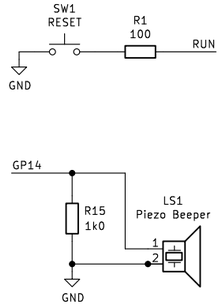

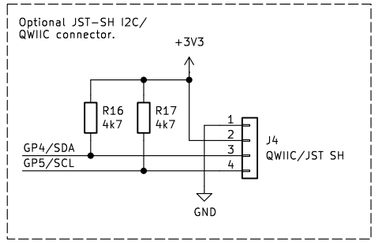

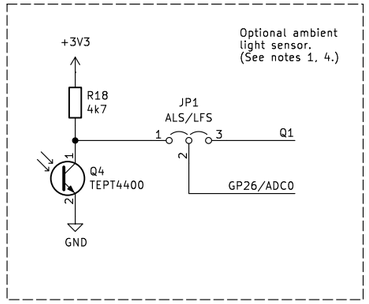

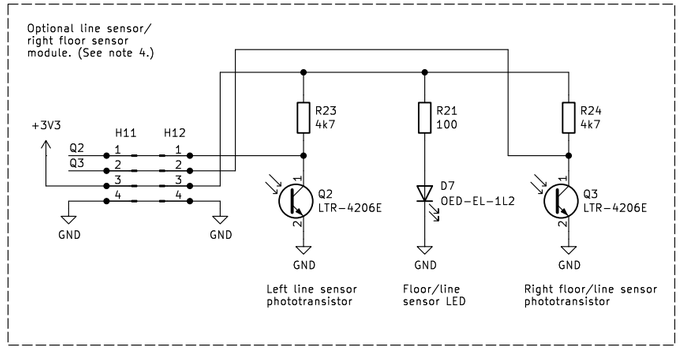

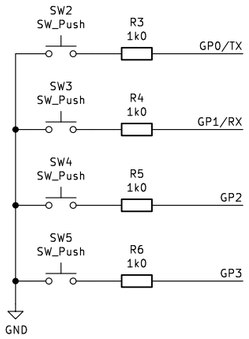

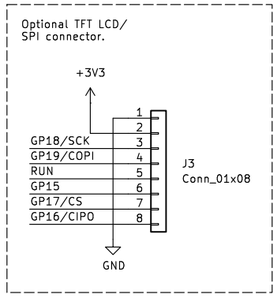

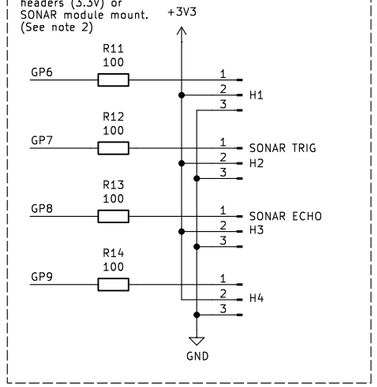

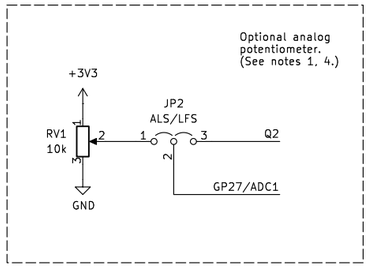

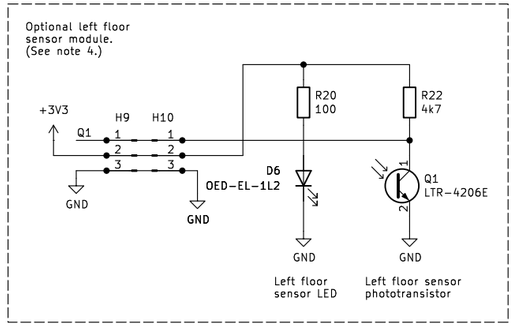

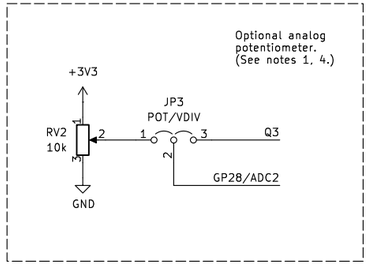

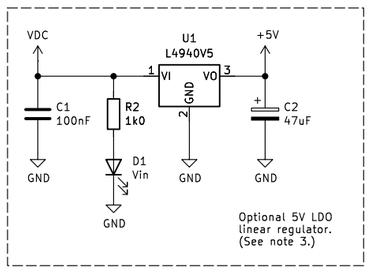

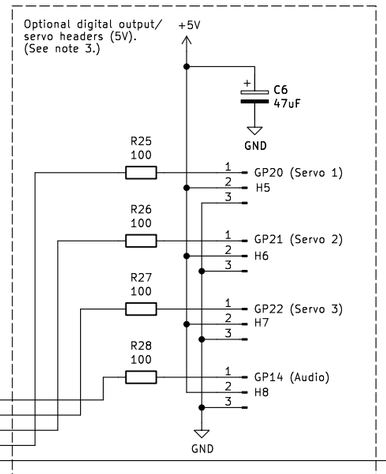

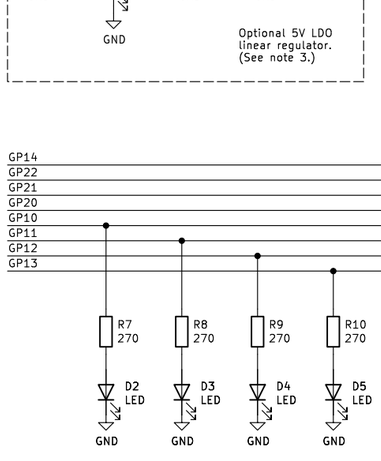

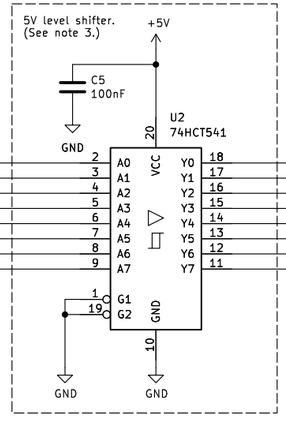

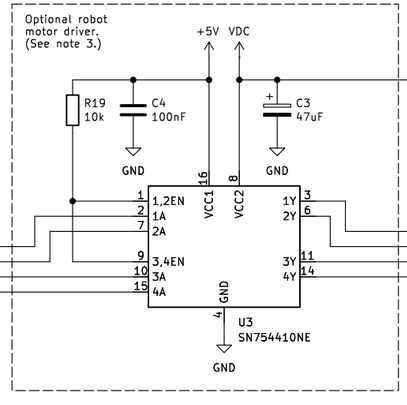

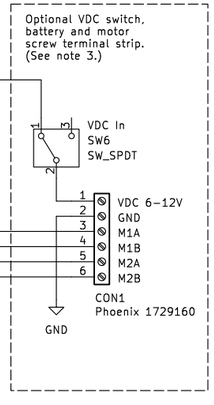

Notes:

1. BEAPER Pico can be built in a simplified Educational Starter configuration using only components not marked as optional. The analog input program shared in the Analog Introductory Programming Activity requires one or more of the optional analog input devices to be installed.

2. Headers H1–H4 can be populated either with 3-pin headers or with 3-pin header sockets. H1–H4 can alternatively be bridged with a single 4-pin header socket to enable a 3.3V HC-SR04P SONAR distance sensing module to plug directly onto the BEAPER Pico circuit board.

3. 5V is available to on-board circuits only when BEAPER Pico is powered through the VDC IN input of screw terminal strip CON1. U1 (5V regulator circuit) and U2 (level shifter IC) are required if using motor driver U3 or digital output headers H5–8.

4. Install the appropriate JP1–JP3 jumper headers to select between available analog input devices (either Enviro. (environmental) sensors Q4, RV1, and RV2, or Robot optical floor and line sensors Q1, Q2, and Q3).

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BEAPER (Beginner Electronics And Programming Educational Robot) for Raspberry Pi Pico

mirobo.tech BEAPER Pico 0.1 (prototype)

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