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The image displays five distinct circuit diagrams for various modules:

- RA8875 TFT Display:** Shows the connection of the RA8875 display module to a microcontroller. It includes a 3.3V power supply, a 0.1μF capacitor, and a 10kΩ pull-up resistor. The display is connected to the microcontroller via I2C (SCL, SDA) and SPI (CS, DI, DO) interfaces. A note states: "Not used by RA8875 board. For future designs."
- External Jacks:** Shows the connection of external jacks (JP_EXT1, JP_EXT2) to the microcontroller. It includes a 3.3V power supply, a 10kΩ pull-up resistor, and a 10kΩ resistor. The jacks are connected to the microcontroller via I2C (SCL, SDA) and SPI (CS, DI, DO) interfaces.
- MCP23008:** Shows the connection of the MCP23008 I2C-to-generics module to a microcontroller. It includes a 3.3V power supply, a 0.1μF capacitor, and a 10kΩ pull-up resistor. The module is connected to the microcontroller via I2C (SCL, SDA) and SPI (CS, DI, DO) interfaces.
- AtoD 12bit:** Shows the connection of the AtoD 12bit module to a microcontroller. It includes a 3.3V power supply, a 10kΩ pull-up resistor, and a 10kΩ resistor. The module is connected to the microcontroller via I2C (SCL, SDA) and SPI (CS, DI, DO) interfaces.
- DtoA 12bit:** Shows the connection of the DtoA 12bit module to a microcontroller. It includes a 3.3V power supply, a 10kΩ pull-up resistor, and a 10kΩ resistor. The module is connected to the microcontroller via I2C (SCL, SDA) and SPI (CS, DI, DO) interfaces.

The image displays five distinct circuit diagrams for various modules connected to a Raspberry Pi 4:

- RA8875 TFT Display:** Shows the connection of a RA8875 TFT display module. It includes a power section with a 3.3V regulator (U1) and a 0.1µF capacitor (C1). The display's pins are connected to the Pi's GPIO pins, with specific pin numbers (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16) and component values (e.g., 10K, 100K) indicated. A note states: "Not used by RA8875 board. For future designs."
- External Jacks:** Illustrates the connection of external jacks (JP_EXT1 and JP_EXT2) to the Pi's GPIO pins. It shows the wiring for various pins (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16) and the use of a 10K resistor (R1) and a 100K resistor (R2).
- MCP23008:** Shows the connection of an MCP23008 I/O expander module. It includes a power section with a 3.3V regulator (U1) and a 0.1µF capacitor (C1). The module's pins are connected to the Pi's GPIO pins, with specific pin numbers (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16) and component values (e.g., 10K, 100K) indicated.
- AtoD 12bit:** Illustrates the connection of an AtoD 12bit module. It shows the wiring for various pins (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16) and the use of a 10K resistor (R1) and a 100K resistor (R2).
- DtoA 12bit:** Shows the connection of a DtoA 12bit module. It includes a power section with a 3.3V regulator (U1) and a 0.1µF capacitor (C1). The module's pins are connected to the Pi's GPIO pins, with specific pin numbers (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16) and component values (e.g., 10K, 100K) indicated.

Buzzer

The diagram shows a buzzer circuit. A 3.3V supply is connected to a buzzer (BUZZER1, 3V 12mm) in series with a 22 ohm resistor (RBUZ1). The buzzer is also connected to a 200 ohm trimmer (RVBUZ2). The trimmer is connected to a 10k resistor (RBUZ1) and a ground (GND). The buzzer is labeled PA04-017-AS-BUZ.

NEO

Photo Cell

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RTC Clock

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