

The diagram illustrates a 3-axis stepper motor driver circuit. It features three integrated circuits: an L297 (IC1) and two L298N (IC2 and IC3). The L297 is configured as a 3-phase to 6-pulse converter, receiving step and direction signals from a 5V microcontroller (K1) and providing current setpoints to the L298N ICs. Each L298N IC drives one of the three motor phases (A, B, and C). The motor is represented by three inductors (LA, LB, LC) connected to the outputs of the L298N ICs. The circuit includes various passive components: resistors (R1-R8), capacitors (C1-C13), and a 10V 50V electrolytic capacitor (C13). Power is supplied to the ICs via 5V and GND connections. The L298N ICs are also connected to a common ground (GND) and a 10V 50V electrolytic capacitor (C13) for decoupling.

Hybrid Stepper Motor Driver Circuit

Daniela Niemeyer



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