

*I am David Korsakov, a second-year student with RBECS Faculty presenting a bluetooth-controlled toy car project. This project is based on the Arduino platform. The circuit consists of an Arduino nano, L298N engine driver, HC-05 Bluetooth module, two pairs of LEDs and resistors. It is controlled via a smartphone with the Bluetooth RC Controller app. Control is carried out as follows: by pressing the button in the application, we send a certain signal, a letter. The module in the circuit receives this signal and transmits it to the MCU. The MCU in turn processes the signal and implements the code: it either feeds 5V to the contacts of the engines or headlamps - or it stops feeding them (cuts them out). The circuit is fully self-contained, running on two lithium batteries providing together 8V and ~1000-1300 mAh. There are only two motors in the car: the frontal enables turning and the rear one provides forward and backward movement.*