October 6th University

Faculty of Information System and Computer Science

Unmanned Car Technology

Course title:

Advanced Software Engineering

Course instructor:

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Brief about our project:

An Arduino car is a small robotic vehicle powered by an Arduino microcontroller. It's a popular project that combines electronics, programming, and mechanics to create a programmable and customizable vehicle, These projects are a great way to learn about robotics and hone programming skills in a hands-on manner.

Robotics is an interdisciplinary research area at the interface of computer science and engineering. Robotics involves the design, construction, operation, and use of robots. The goal of robotics is to design intelligent machines to help human beings in their daily activities. This technology has resulted in automated machines that can replace humans in manufacturing processes or dangerous environments. These robots have numerous structures depending on their functions. Generally, robots are grouped into

Many Arduino car projects are designed to be controlled remotely, either via Bluetooth connectivity or using a joystick. By integrating Bluetooth modules like HC-05 or HC-06, enthusiasts can establish a wireless communication link between the Arduino car and a smartphone or other Bluetooth-enabled devices. Alternatively, incorporating a joystick controller provides a tangible and intuitive way to maneuver the Arduino car. These control options enhance the versatility of the project.