



# Automatic Car Parking Toll Gate System

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Welcome to *Agafia SG0 Project*! This project demonstrates a simple automatic toll gate system using an IR sensor and a servo motor. When a car approaches the gate, the IR sensor detects it and opens the gate automatically. After a short delay, the gate closes again.



## Hardware Requirements

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- [Agafia SG0+ Dev board](#)
- IR Sensor Module
- Servo Motor (e.g., SG90)
- Jumper Wires
- Breadboard (optional)
- Power Supply or USB Cable





# Customization

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- Adjust the `delay(2000)` to change how long the gate stays open.
- Modify servo angles if your mechanical setup requires different positions.



## Notes

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- Ensure your servo motor is powered adequately to avoid jittering.
- Use external power if needed for servo stability.

