

Design and manufacture of a window lift control system model for the Toyota Vios 2019 to serve laboratory practice.

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Abstract: This project aims to design and manufacture a control system model for the window lifting mechanism of a Toyota Vios 2019, in order to provide an effective experimental practice environment for students. By applying conventional control theory combined with modern electronic technology, the main objective is to build a flexible system with precise control capability. The research methodology includes requirement analysis, detailed design, application implementation, and performance evaluation. The results of the project not only enhance students' practical knowledge but also provide a potential technical solution to improve the car usage experience.

Keywords: control system, experimental practice model, Toyota Vios 2019