Abstract

Research Title : The Implementation of Embedded System for Parking Assistance Voice Control Prototype
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Nowadays, the vehicle accident increasing with every day. The accident scaling has a big down too small such as an accident from parking in the car park. A driver in a car have not seen an environment around a car. We have an idea to fix this problem which is the implementation of embedded system for parking assistance voice control prototype. The aim of research has design, implement, and evaluate the system. The Hardware and software codesign in a system implemented by the Xilinx Vivado software tool on a Zybo Zynq-7000 embedded system board. An experimental result of this research achieved that the system ordered by “GO”, “BACK”, “LEFT”, “RIGHT”, and “STOP” of voice command. There are 3.2 seconds and 7.9 seconds with noise signal of processed. In the future, a system applying to the commercial cars.