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Design & implementation of an unmanned ground vehicle with power system optimization

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We are living in a world where a lot of research has been going on in the field of unmanned vehicles, which includes unmanned ground vehicles (UGVs), unmanned aerial vehicles(UAVs) and unmanned water vehicles (UWVs). The UGV technology grows rapidly. Generally UGV is developed for military purpose. Now a days, many universities and research institute are researching in new UGV technology for commercial use such as transportation service. The UGV system generally consists of four parts such as vehicle control system, navigation system, and obstacle detecting system and traffic signal monitoring and detection system. In this project, we have designed and implemented a prototype of UGV using Raspberry Pi microcomputer.