Registration Form

TEAM INFORMATION

Team Name/Project Title: Scooter Gang

Department: Computer Science

Faculty Advisor: Liang He

Team Members: Jennifer Guidotti, Cole Christenson, Michael Hedrick, Alex Tarasov

PROJECT INFORMATION

Description:

The Singing Battery project analyzes battery information, projecting this information as an audible notification to the end user.

Abstract:

Batteries are utilized within numerous transportation devices such as automobiles, boats, buses and even scooters. To address the growing need for understanding how a battery would affect the system of such a device our project consists of specifically analyzing the battery statistics, and turning them into an audible, musical notification system that is easy for the end user to utilize to their advantage. As part one of our Senior Design project, our focus has been to take our general proof of concept model and create a more complete unit that would allow for notifying the user for battery temperature and capacity information. This semester after identifying the type of transportation device, we have begun to integrate our hardware devices with scooter. This has included designing and implementing our music algorithm to generate the sounds for the battery fluctuations, reporting battery information from a visual standpoint and integration with the battery, and creating our demonstration environment for the competition.