

**Name of students in the group:** Aaron Pfalzgraf and Chris Sullivan

**Exact title of the project:** Real-time Speaker Verification System

**Advisors of the project:** Dr. Jose Sanchez

**No more than 8 lower case letter acronym for the project:** svsv

**University login name of each student in the group:** apfalzgraf csullivan2

**A brief description of the project:**

The goal of this project is to design a system that can interpret commands given to a remote control vehicle, while only accepting commands from a specific person. The system should be able to identify a specific person by analyzing the characteristics in their voice. The project will be divided into two portions: a working text-based system in simulation and a hardware implementation of a text-independent system. The first semester will be spent doing a bulk of the research related to the analysis of the voice samples using different techniques. There are several different methods that could be used; the research will determine which of these methods will be implemented. The main deliverable by the end of the first semester would be a working text-based system in simulation.

The second semester will be spent researching, designing, and developing a system with the same functionality as above, but without the use of a passphrase. The system needs to pick out patterns and characteristics of the speaker's voice and make a decision on whether or not the ID matches that of the person in question.