

Project Scope Statement

Project Name:	Gesture Recognition for Automotive Infotainment Systems
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1. Executive Summary

Provide a brief overview of this project (e.g., Purpose and justification, good investment).

The purpose of this project is to develop a system capable of recognizing gestures in an automobile system in order to interact with an onboard infotainment system. The use of gesture recognition should drastically cut back on the distractions created by a haptic system, which requires averting of the eyes from the road.

2. Product Scope

2.1 Description of Project Solution

Hardware system consisting of sensor/s and microprocessor capable of accurately recognizing and reporting hand gestures.

2.2 Project Deliverables

Sensor/s system (prototype)

Microprocessor (prototype)

Gesture Recognition Software

*system must be able to accurately recognize 4-20 gestures with an accuracy greater or equal to 98%.

2.3 Business Requirements

Cheap accurate gesture recognition system to increase safety by decreasing distractions caused by interacting with a vehicle's infotainment system.

3. Project Scope

3.1 Project Management Approach

Waterfall

3.2 Project Management Deliverables

- Bi-weekly meetings between Garmin and ISU senior design group

- Project Plan
- Development Timeline

3.3 Project Completion

Product must be able to recognize 4-20 distinct gestures.
Product must have below a 1/100 false positive rate.