

# Problem Statement and Goals

## Mechatronics

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Table 1: Revision History

Date	Developer(s)	Change
Date1	Name(s)	Description of changes
Date2	Name(s)	Description of changes
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## 1 Problem Statement

Communication is a key component of both the professional workplace and personal life. Many difficulties can occur especially when the individual has a disability that prevents them from being able to speak properly. Sign language has been a method to help bridge those who are deaf/mute with other people, but as with language, both parties are required to understand it to clearly communicate with each other. The Sign Language Translator is a device to help further close that gap by introducing a sensor that can translate hand motions and gestures from the American Sign Language (ASL) into a text to speech application on their phones. This method will be able to provide real-time instant feedback to simulate a spoken conversation and can eliminate the need for a third party translator as the individual is able to express themselves freely, thus improving their quality of life in society.