

HandTalk

“Talk to the Hand”

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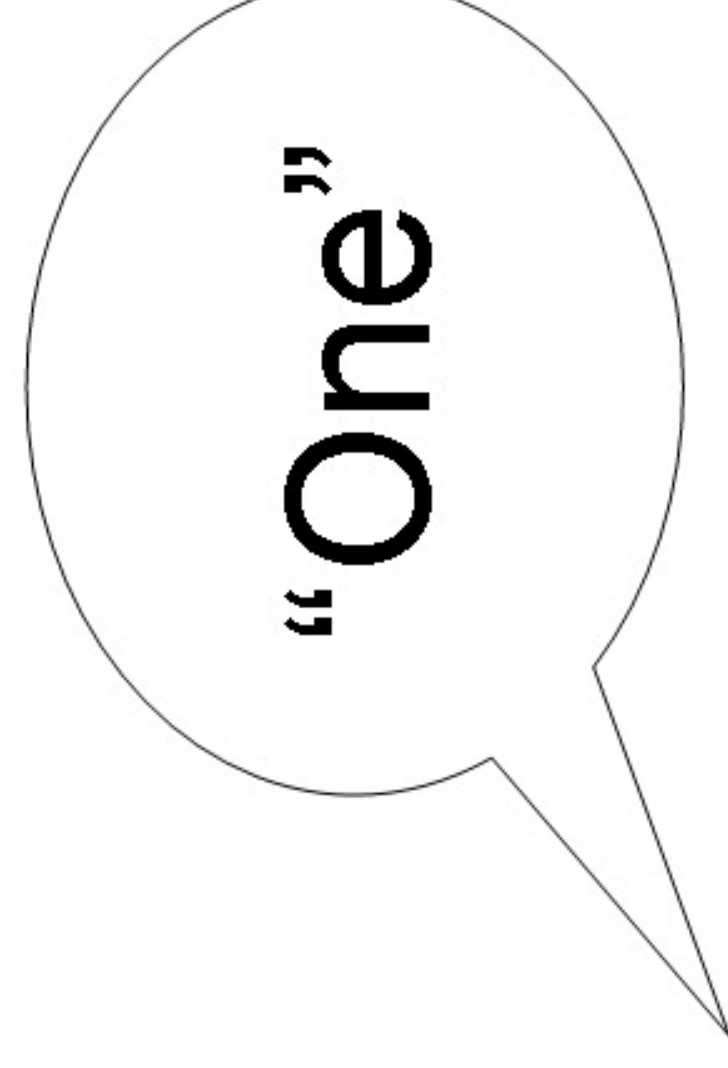
Purpose

- There is no fast and convenient way for a deaf person to communicate with someone who does not understand sign language
- To solve this problem, we have created a glove which converts hand gestures into speech to bring down these barriers of communication
- HandTalk is fully extensible – anyone can reuse our gesture recognition platform for other applications

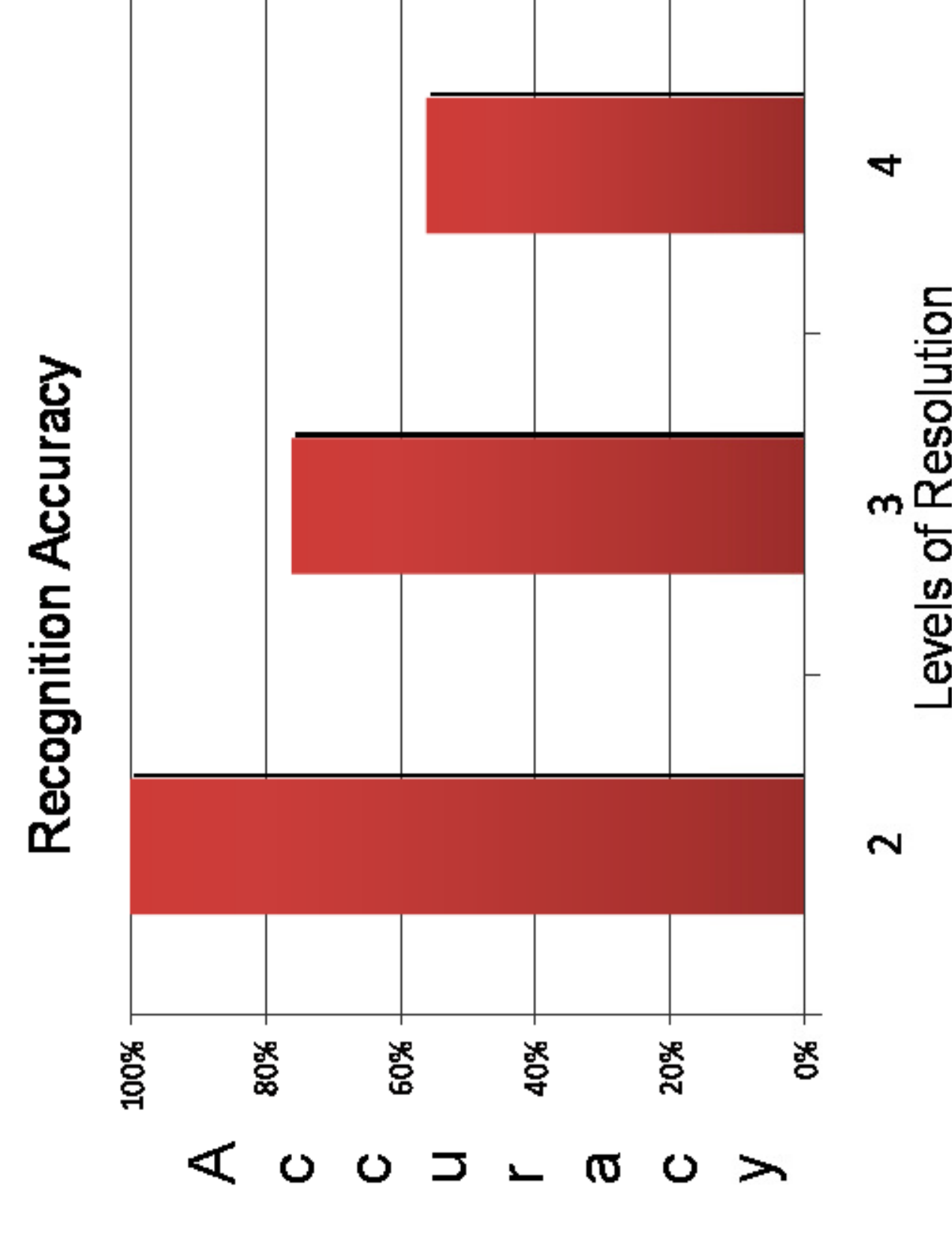
Usage



SIGN RECOGNIZE SPEAK!

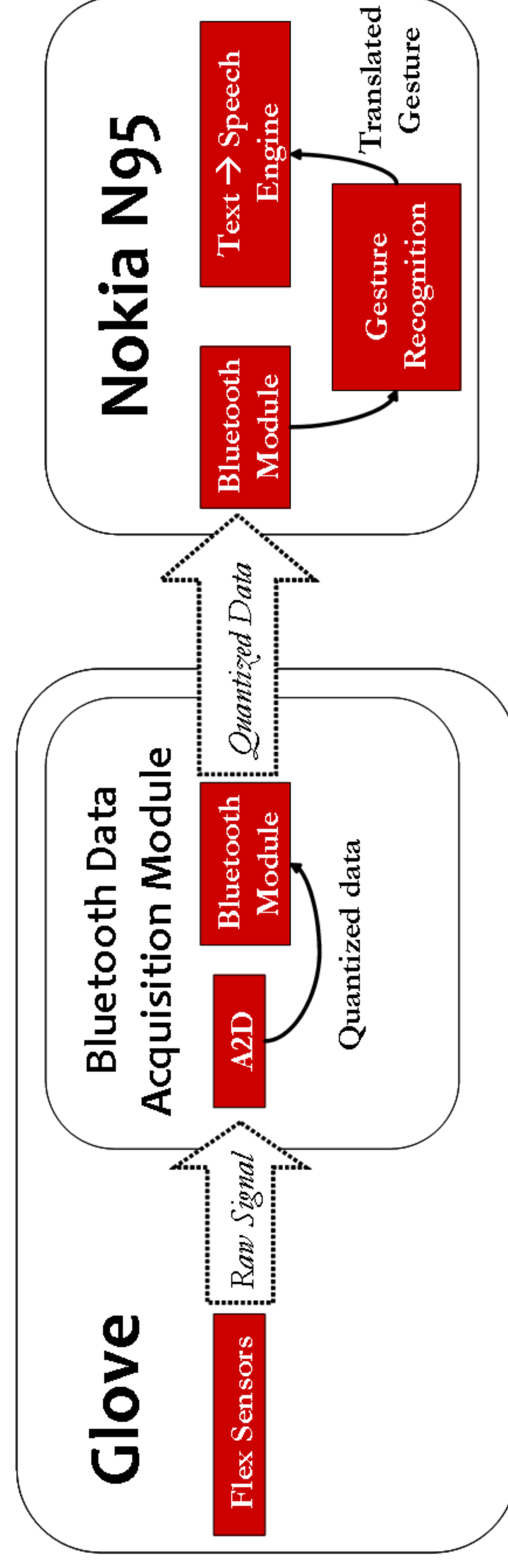


Results



- Prototype can successfully recognize signs defined by user
- Enables a user to vocalize a word without actually speaking
- Gesture Recognition can activate any action programmed by developer

Architecture



Competitive Advantage

- **PORTABLE:** The HandTalk glove is lightweight, has low power consumption and can be easily removed and stored when not in use
- **WIRELESS:** HandTalk utilizes Bluetooth technology to provide a clean solution
- **CHEAP:** HandTalk uses off-the-shelf existing technology and the user's cellphone making it cheap to manufacture
- **LOW-PROFILE:** HandTalk uses very low profile sensors which keep the glove sleek and form-fitting

- **VERSATILE:** HandTalk's flexible platform can be redeployed for a variety of purposes:
 - A Medical Diagnostic Device to measure hand dexterity
 - Command issuer in military field operations
 - Sign language trainer
 - Mobile gaming