The Technology and Innovation

- Our device provides an effective tool to allow Aphasia patients to communicate verbally on a daily basis
- Generalize therapy methods to be used in social interactions
- Conjunction of an Android Application and Google Glass
  - Allows for eye contact in conversation
  - User can solely use application if they desired

Application Flow:
1. User selects conversation type (General or Specific)
2. Records audio of other individual
3. Gives user possible linguistic cues
4. User selects desired cue
5. Cue is displayed on Google Glass
6. User has option to play audio of the linguistic cue

Community/Industry Impact and Value

- Unique application that can be customized for and adapt to the user’s severity level
- Increases comprehension and is an aid for verbal output
- Keeps user involved in the conversation by maintaining eye contact

Community/Industry Engagement

- Dr. Margaret Greenwald – Chair of the Communication Sciences and Disorders at WSU specializing in Aphasia research
- Professor Khayyam Hashmi – Computer Science Professor at WSU
- University of Michigan Aphasia Clinic
- LBB & NIH (NIBIB)

Team Composition

- Andrews Ankrah BME
- Andrew MacIntyre BME
- Ariana Mostafa BME
- Justine Nestorowich BME
- Heather Lai (Faculty Advisor)

Further Research and Development

- Further integration of Google Glass
- With the aid of Dr. Margaret Greenwald perform clinical research on the functionality of our design at the Wayne State Speech and Language Center

Learning Experiences

- Medical condition of Aphasia
- Clinical Observations
- Application Development – Java and Android Studio Coding
- Risk Analysis
- Prototyping
- Validation testing
- Verification of design
- FDA Regulations – Premarket Approval

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