Meeting Agenda

Time: 12:00 PM   Date: November 14th, 2019   Location: CS212

Corrine Clapp	Makani Mafua	Rose McDonald	Jake Patzer	Jason Torrence
(530)-383-2634	(253)-737-7307	(360)-481-9527	(253)-279-1655	(509)-264-8788
corrine.clapp@ cwu.edu	makani.mafua@ cwu.edu	rose.mcdonald@ cwu.edu	jacob.patzer@ cwu.edu	jason.torrence @cwu.edu

---

Introduction: After our meetings this week, we have come up with the following ideas for implementation along with a more detailed description of what modules would be involved in each function. As we continue experimenting with the robots capabilities and the difficulty of these implementations, we will refine our ideas to match. We'd like to discuss whether these implementations will still be enough as we have combined or removed a few ideas from our previous draft.

Ideas:
- Perform the Haka (or some other dance)
  - Movement
  - Sound
- Identify and move to a person
  - Facial recognition
  - Directional recognition
  - Movement
  - Can we recognize at the same time as we move to implement a "follow" functionality?
- Read a document held up to the camera (more specifically, a document with a large print word or number, or a short expression for evaluation like 5 + 5)
  - Recognition of text from camera
  - Processing text
  - Evaluate expression*
  - Text to speech
- Google API/HTTP Requests
  - Text to speech
  - Speech to text
  - HTTP Request
  - Text to speech
- Evaluation of expressions:

- ○ Text to expression
- ○ Evaluate expression
- ○ Text to speech
- ● Remote control
  - ○ Connection to phone
  - ○ Speech to text (phone side)
  - ○ Send command back to robot from phone
  - ○ Perform based on command
- ● Tic-tac-toe
  - ○ Speech to text (Tell the robot to make a move)
  - ○ Identify pieces and game board (infrared cameras)
  - ○ Choose a location to place a piece
  - ○ Point towards location
  - ○ Tester places piece and makes a move
  - ○ Repeat