

Communication_Device

The design of a phonetics-based augmentative device for children with significant communication disorders

Names:

Brian Mogen (Leader)
Steve Wyche (BSAC)
Prachi Agarwal (BWIG)
Erin Devine (Communicator)

Client: Dr. Lawrence Kaplan

April 17 – April 24, 2009

Problem Statement: (Working Statement): To design a device that allows people with communicative disabilities but motor functions to speak and express emotion with their voice. The device must provide immediate output, and it must be intuitive and accurate.

Team Goals:

Testing
Start Presentation Preparation

Individual Goals:

Brian: See team goals
Erin: See team goals
Prachi: See team goals
Steve: See team goals

Summary of Accomplishments:

Continue characterization of how tube length and diameter affect sound quality

Statement of Team Goals (Next Week):

Testing – fit tubing attachments and adaptors. Test connections
Research – alternate microphones

Statement of Individual Goals (Next Week):

Brian: testing – tubing, start organizing presentation
Erin: contact client
Prachi: testing - mics
Steve: testing - mics

Difficulties:

The seal of the tubing size step down is very critical for maintaining sound transmission

Activities:

Brian:

Progress Report .5 hr

Testing 2hr

Buying supplies .5 hr

Erin:

Contacted Client .5 hr

Prachi:

Testing 2hr

Steve:

Testing 2hr

Time

	Brian	Erin	Prachi	Steve	Team
Week 1	5	3	2	3	13
Week 2	4.5	4	2	1.5	12
Week 3	2.5	1.5	1	2	7
Week 4	3.5	2	2.5	2	10
Week 5	5	4.25	4	5	18.25
Week 6	3.5	2.5	3.5	3	12.5
Week 8	1	.5	0	0	1.5
Week 9	3.5	3	3	3	12.5
Week 10	2.5	2	2	2	8.5

Week 11	3.5	2	2	2	9.5
Week 12	3	.5	2	2	7.5
Cumulatice	37.5	25.25	26	25.5	109.25

Timeline

QuickTime™ and a
TIFF (LZW) decompressor
are needed to see this picture.