



## CONSENT TO PARTICIPATE IN RESEARCH

### *Designing Behaviors for Interactive Devices*

University of California at Berkeley

### Introduction

My name is Cesar Torres. I am a graduate student working with Professor Eric Paulos in the Department of Electrical Engineering and Computer Science at the University of California, Berkeley.

We are inviting you to participate in this study because we are interested in gaining your feedback on our software tool for designing interactive behaviors.

### Purpose

The purpose of our study is to evaluate a new design primitive for creating behaviors for interactive devices. Behaviors refer to the way interactive devices convey system state or information. We have developed a design tool that uses waveforms, or digital signals, to allow users to directly manipulate the behaviors of LEDs, motors, vibrators, and other types of actuators.

Subject must be 18 or older, be computer literate, and have a laptop which can be used to run some custom software to participate.

### Procedures

If you agree to be in this study, you will be asked to do the following:

Participate in an approximately week long study with four 60-minute design tasks using our tool.

You will need to bring their laptop computer to the lab at Sutardja Dai Hall. We will install our software on your machine; and give you a scanner and an interactive device needed to complete the study. We will go over a quick demonstration of how to use the software and devices.

These tasks can be completed at any time during the week long period. After each task, you will be asked to: take and submit a video of your creation, record a description, and add a diary entry about your experience. We will remove all identifiable information from your submitted videos and diary entries.

### **Study time**

We anticipate the study taking approximately 4 hours.

### **Study location**

The study will be conducted remotely by you. Materials for the study may be picked up at Sutardja Dai Hall, UC Berkeley and orientation of the study will occur in SDH 141.

### **Benefits**

We hope that the information gained from this research study will help advance knowledge of creative design tools for interactive device design.

There is no direct benefit to you from taking part in this study.

### **Risks/Discomforts**

We do not anticipate that the research questions may make you uncomfortable or upset. You are free to decline to answer any questions you don't wish to at any time.

Breach of confidentiality: As with all research, there is a chance that confidentiality could be compromised; however, we are taking precautions to minimize this risk.

In case of unanticipated problems, you will be asked to stop the study.

### **Confidentiality**

Your study data will be handled as confidentially as possible. If results of this study are published or presented, individual names and other personally identifiable information will not be used.

To minimize the risks to confidentiality, we will do the following:

- The data will be collected with a key-value system. A single physical document (key) will link the research data to your identifiable information.

- Personal identifiers (email addresses, phone number, and the key) will be destroyed a month after the end of this study.
- Your research records, including computer-based data, will be stored in a locked cabinet (physical materials), in a secured building and/or in an encrypted, password-protected computer (digital materials).
- Only I/the researcher(s) will have access to your study records.
- Identifiable information from the submitted videos will be removed and diary logs will be removed or masked.

The research data will be maintained for possible use in future research by myself or others. I will retain this data for up to five years after the study is over. The same measures described above will be taken to protect confidentiality of this study data.

### **Privacy**

The orientation to the study will be conducted in a private conference room with only the researcher(s). The other design tasks will be conducted remotely by you, whereby you can choose your preferred environment.

### **Compensation/Payment**

You will receive payment for participating in the research study. Payment will be a \$65 Amazon gift card.

If you choose to withdraw from the research study, you will be compensated at \$15/hour-long design task. Payment will be an electronic Amazon gift card.

A link to a digital Amazon gift card will be emailed to the participant once study materials (scanner, interactive device) have been returned.

Only your email address will be collected for payment purposes.

### **Costs**

You will not be charged for any of the study activities.

### **Rights**

**Participation in research is completely voluntary.** You are free to decline to take part in the project. You can decline to answer any questions and are free to stop taking part in the

project at any time. Whether or not you choose to participate in the research and whether or not you choose to answer a question or continue participating in the project, there will be no penalty to you or loss of benefits to which you are otherwise entitled.

## Questions

If you have any questions or concerns about your rights and treatment as a research subject, you may contact the office of UC Berkeley's Committee for the Protection of Human Subjects, at 510-642-7461 or [subjects@berkeley.edu](mailto:subjects@berkeley.edu).

If you have any questions about this research, please feel free to contact me. I can be at reached at [cearto@berkeley.edu](mailto:cearto@berkeley.edu) or 915-208-4709 or you can contact the principal investigator Eric Paulos at [epaulos@berkeley.edu](mailto:epaulos@berkeley.edu)

## Principal Investigator Contact Info

Eric Paulos ([epaulos@berkeley.edu](mailto:epaulos@berkeley.edu))

## Consent

You have been given a copy of this consent form to keep.

If you wish to participate in this study, please sign and date below.

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Participant's Name (please print)

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Participant's Signature

Date