University of Pennsylvania
Center for Human Modeling and Simulation
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Consent Form

Evaluation of Gesture-Based Control for Robotic Systems

PURPOSE

The purpose of this study is to measure the efficacy of different gesture-based control systems. You will test several control systems by navigating a robot through an obstacle course. The overarching goal of this work is to determine which control schemes are the best for soldiers who work with mobile robots. Should you choose to participate, we will videotape your participation for data collection purposes. The images of you collected during the study will not be redistributed without your written consent. You will be asked to complete a brief questionnaire at the end. Your total time is not expected to exceed 1 hour. The study will take place in the SIG Center within Penn Engineering. This research is sponsored by the Department of Defense and is subject to review by the Army Human Research Protections Office.

RISKS

The potential risks in this project are minimal. Possible risks are muscle strains and sprains while gesturing. If this occurs, the study will stop, and you can stop or continue at a future time. The electronic devices involved are not expected to cause any physical harm.

EXCLUSION CRITERIA

If you have a condition or injury such that you do not have a full range of wrist, elbow, or shoulder motion, you should not participate in this study.

BENEFITS

There are no direct benefits to you if you choose to participate in this study. However your participation could contribute to the understanding of gesture-based control systems, which could benefit you indirectly and may help other people in the future.

CONFIDENTIALITY

Every attempt will be made by the investigators to maintain all information collected in this study strictly confidential, except as may be required by court order or law. Data from the questionnaire answers may be stored on computers but will not be associated with your name. Authorized representatives of the University of Pennsylvania, including members of the Institutional Review Board (IRB), a committee charged with protecting the rights and welfare of research subjects, may be provided access to research records that identify you by name. If any publication or presentations results from this research, you will not be identified by name.

WITHDRAWAL

Your decision to take part in this study is a voluntary one. You may terminate your participation anytime without prejudice to present or future care or services at the University of Pennsylvania.

ALTERNATIVES TO PARTICIPATION

The alternative to being in this study is to not be in this study.

SUBJECT'S RIGHTS

Should you wish further information regarding your rights as a research subject at the University of Pennsylvania, you may contact the Director of Regulatory Affairs at 215-898-2614.

If you have any questions about the study you may contact the principal investigator (Dr. Norman Badler), listed on the first page of this document.

By signing below, the subject asserts that:

He/she has read and understands this consent form.

He/she gives permission for the project personnel to use the images/videos collected as a result of this study for data collection purposes. Anonymity in all publications will be maintained unless he/she gives written consent to use his/her image.

He/she does not waive any of his/her legal rights by signing this form.

His/her signing of this form does not release the investigator, the sponsor, the institution nor its agents from liability for negligence.

_____	_____
Signature of subject	Signature of person obtaining consent
_____	_____
Print name of subject	Print name of person obtaining consent

This consent form follows federal regulations. Specifically, Title 45 (Public Welfare), Department Of Health and Human Services, National Institutes Of Health, Office For Protection From Research Risks, Part 46 (Protection Of Human Subjects). These regulations can be found at http://ohrp.osophs.dhhs.gov/humansubjects/ guidance/45cfr46.htm, specifically sections 46.116 and 46.117.