

ID: 10

Delft University of Technology  
HUMAN RESEARCH ETHICS  
INFORMED CONSENT FORM

You are being invited to participate in a research study titled **Power Harvesting Game Console**. This study is being conducted by James Broadhead, Jasper de Winkel, and Przemysław Pawełczak from Delft University of Technology.

**Purpose:** The purpose of this research study is to understand your views on a novel game console that has been developed by researchers at Delft University of Technology and will take you approximately 30 minutes to complete. The data will be used for publication in an academic conference/journal and the results of the study will be disseminated through social, digital, and print media. We will be asking you to complete a number of gaming tasks on the game console and answer a series of questionnaire questions about your experience. We may also ask you a number of follow-up interview questions after the gaming experience should you wish to answer them.

**Potential Risks:** The console used may occasionally flicker on and off during operation and as such it is **advised not to undertake the study if you suffer from photosensitive conditions, such as photosensitive epilepsy, or suffer migraines that are worsened by flickering lights**. The device is a prototype and has thus not been CE certified, however it is inherently low-powered and completely electrically isolated, so the risk of electrical injury is negligible. It has also been approved by an independent reviewer within Delft University of Technology.

**Data Collection:** As with any data collecting activity the risk of a breach is always possible. To the best of our ability your answers in this study will remain confidential. We will minimise any risks by providing you with a pseudonym during the study and anonymising all data collected before dissemination of work relating to this study. We will also only collect non-sensitive personal data, which will be handled in accordance with GDPR. You may ask to have your data deleted at any time whilst you perform the study and before the data is published, however this will not be possible after the anonymised data is disseminated.

**Covid Precautions:** To reduce the risk of transmission of a communicable disease such as Covid-19, you may ask the investigator running the user study to wear a face mask at any time. Investigators will also maintain a sufficient distance from you except when necessary to conduct the experiment.

**Participant's Rights:** Your participation in this study is entirely voluntary **and you can withdraw at any time**. You are free to omit any demographic questions and may ask the involved researchers to erase the data associated with your participation at any time during your participation in the study.

**Position of Subordination to Researcher:** It is possible that you personally know the researcher conducting the experiment. Should you feel that you are in a position of subordination that makes you feel uncomfortable (for example you feel that your participation will affect a future non-study related activity involving the researcher) you may ask for a different researcher to conduct the study. You also have the option to terminate your involvement in the study without repercussion. Note that **your decision to participate or not participate in this study does not affect any non-study related activities** (such as course grades from a teaching activity involving the researcher).

**Renumeration:** Your participation in this study will be remunerated with a 5 Euro gift card. Your renumeration is not related to your performance or responses in the study. You will also still be remunerated if you decide to withdraw before the end of the study.

If you have any questions relating to the study after completion, you may contact James Broadhead (J.S.Broadhead@tudelft.nl) or Przemysław Pawełczak (p.pawelczak@tudelft.nl).

PLEASE TICK THE APPROPRIATE BOXES		Yes	No
<b>A: GENERAL AGREEMENT – RESEARCH GOALS, PARTICPANT TASKS AND VOLUNTARY PARTICIPATION</b>			
1. I have read and understood the study information dated [ <u>July 17</u> <sup>2023</sup> ], or it has been read to me. I have been able to ask questions about the study and my questions have been answered to my satisfaction.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. I feel in a subordinate position to the investigator (person conducting the study) and would like a different researcher to conduct the study.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. I consent voluntarily to be a participant in this study and understand that I can refuse to answer questions and I can withdraw from the study at any time, without having to give a reason.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. I would like to take part in a short semi-structured interview after completing the study to discuss my experience.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. I understand that taking part in the study involves:			
<ul style="list-style-type: none"> <li>- Completing a series of gaming tasks on the gaming systems.</li> <li>- Completing a series of short questionnaires, on a provided computer, about my experience completing the tasks on the system.</li> </ul>			
If yes to Q4:			
<ul style="list-style-type: none"> <li>- Undertaking a follow-up interview about my experience. Written notes will be taken from my responses to the interview questions. No audio or video recording will take place during this interview.</li> </ul>			
6. I understand that I will be compensated for my participation by a 5 Euro gift card.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. I understand that the study will end after completing the assigned tasks and questionnaires (approximately 30 mins).		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>B: POTENTIAL RISKS OF PARTICIPATING (INCLUDING DATA PROTECTION)</b>			
8. I understand that taking part in the study involves the following risks:		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>- <b>Exposure to mild screen flicker.</b> Participants with conditions that are worsened by screen flicker (e.g. photosensitive epilepsy and migraines) are advised not to undertake the study.</li> <li>- <b>Physical fatigue due to using the gaming device.</b></li> </ul>			
I understand that these will be mitigated by:			
<ul style="list-style-type: none"> <li>- Allowing the study to be stopped at any time and for any reason.</li> <li>- Adequate warning of potential risks associated with the study.</li> </ul>			
9. I understand that taking part in the study also involves collecting specific personally identifiable information (PII) [Age, Gender, Handedness] and associated personally identifiable research data (PIRD) [Device use: button presses, energy harvested, device tilt]		<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. I understand that the following steps will be taken to minimise the threat of a data breach, and protect my identity in the event of such a breach:		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>- There will be no collection of sensitive data under GDPR</li> <li>- Data will be securely stored whilst being processed <ul style="list-style-type: none"> <li>- Data will be anonymised before publication to an online repository</li> </ul> </li> </ul>			

PLEASE TICK THE APPROPRIATE BOXES		Yes	No
<b>C: RESEARCH PUBLICATION, DISSEMINATION AND APPLICATION</b>			
11. I understand that after the research study the de-identified information I provide will be used for publication in an academic conference/journal. The results of the study will also be disseminated through social/print/digital media channels.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. I agree that my responses, views or other input can be quoted anonymously in research outputs.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>D: (LONGTERM) DATA STORAGE, ACCESS AND REUSE</b>			
13. I give permission for the de-identified gender, age, and device use data that I provide to be archived in an online open source repository so it can be used for future research and learning.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. I understand that access to this online repository is open and free for all to access.		<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Signatures**

Pei-Yu Chen  
Name of participant [printed]

陳沛雨  
Signature

17.7.2023  
Date

I, as researcher, have accurately read out the information sheet to the potential participant and, to the best of my ability, ensured that the participant understands to what they are freely consenting.

James Broadhead  
Researcher name [printed]

James  
Signature

17.7.2023  
Date

Study contact details for further information: JAMES BROADHEAD, J.S.Broadhead@tudelft.nl