



Dublin City University  
School of Computing  
ETHICS COMMITTEE

NOTIFICATION FORM FOR LOW-RISK  
PROJECTS AT UNDERGRADUATE OR  
TAUGHT MASTERS LEVELS

Application Number:			
<p><b><u>Please read the following information carefully before completing your application. Failure to adhere to these guidelines will make your submission ineligible for review.</u></b></p>			
<ul style="list-style-type: none"> <li>➤ <b>Download this form</b></li> <li>➤ <b>Completed applications must be uploaded to your School of Computing GitLab repo, and must be located in "docs/ethics.pdf".</b></li> <li>➤ <b>Your supervisor will be notified automatically and must approve your approach initially.</b></li> <li>➤ <b>The application should consist of <u>one electronic file (PDF) only</u>.</b> The completed application must include this form and also must incorporate all supplementary documentation, especially that being given to the proposed participants e.g consent forms, plain English language statement. It must be proofread and spell-checked before submission.</li> <li>➤ <b>All sections of the application form must be answered as instructed and within the word limits given.</b></li> </ul> <p>Applications which do not adhere to all of these requirements will not be accepted for review and will require resubmission</p> <p>Applications must be completed on this form; answers in the form of attachments will not be accepted, except where indicated. No hard copy applications will be accepted. <b>The project <u>must not</u> commence until written approval has been received from the School of Computing Ethics Committee.</b></p>			

<b>PROJECT TITLE</b>	AIRace
<b>PRINCIPAL INVESTIGATOR(S)</b> <i>The named Principal Investigator is the person with primary responsibility for the research project. In the case of Taught Masters projects and undergraduate projects the supervisor is the Principal Investigator.</i>	Martin Crane

<b>START AND END DATE</b>	March - April 2019
<b>LEVEL OF RISK</b> <i>Please indicate whether this project requires more than a notification Justification for your choice is required under section 3.1</i>	There is no risk involved in the use of this game or the answering of the questionnaire provided during the testing phase.

Please confirm that all supplementary information is included in your application (in electronic copy). If questionnaire or interview questions are submitted in draft form, please indicate this by putting (draft) after YES. A copy of the final documentation must be submitted for final approval when available.

<b>My application has been collated as one electronic file which includes the following documentation:</b>	<b>INCLUDED (mark as YES)</b>	<b>NOT APPLICABLE (mark as N/A)</b>
Bibliography		N/A
Recruitment advertisement		N/A
Plain language statement/Information statement		N/A
Informed consent form		N/A
Personal Data Security Schedule <a href="https://www.dcu.ie/sites/default/files/info/3_blank_data_security_schedule.xls">https://www.dcu.ie/sites/default/files/info/3_blank_data_security_schedule.xls</a>		N/A
Evidence of external approvals related to the research		N/A
Questionnaire/Survey	YES	
Interview/Focus Group Questions		N/A
Debriefing material		N/A
Other (e.g. local government approval )		N/A

Please note:

- Any amendments to the original approved proposal must receive prior SCEC approval.
- As a condition of approval investigators are required to document and report immediately to SCEC any adverse events, any issues which might negatively impact on the conduct of the research and/or any complaint from a participant relating to their participation in the study

## 1. ADMINISTRATIVE DETAILS

Project Type: **Undergraduate Project – Final Year**

### 1.1 INVESTIGATOR CONTACT DETAILS

**PRINCIPAL INVESTIGATOR(S):** *Your supervisor and other academic staff who are assisting, it should be clear who is the person who is carrying out the research procedures.*

NAME	SCHOOL/UNIT	EMAIL
Kyrylo Khaletskyy	School of Computing	Kyrylo.khaletskyy2@mail.dcu.ie
Martin Crane (supervisor)	School of Computing	Martin.crane@dcu.ie

**OTHER INVESTIGATORS (STUDENT(S):**

NAME	SCHOOL/UNIT	EMAIL
N/A		

1.2 WILL THE RESEARCH BE UNDERTAKEN ON-SITE AT A Dublin City University CAMPUS ?

YES or NO
YES

(If NO, state details of the off-campus location – provide details of the approval to gain access to that location in section 2.7.)

2.7.)

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1.3 IS THIS PROTOCOL BEING SUBMITTED TO ANOTHER ETHICS COMMITTEE, OR HAS IT BEEN PREVIOUSLY SUBMITTED TO AN ETHICS COMMITTEE?

YES or NO
NO

(If YES, please provide details and attach copies of approval(s) received etc.)

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**DECLARATION BY PRINCIPAL INVESTIGATOR(S)**

*The information contained herein is, to the best of my knowledge and belief, accurate. I have read the University's current research ethics guidelines, and accept responsibility for the conduct of the procedures set out in the attached application in accordance with the form guidelines, the SCEC guidelines (<https://www.dcu.ie/researchsupport/researchethics.shtml>), the University's policy on Conflict of Interest, Code of Good Research Practice and any other condition laid down by the Dublin City University Research Ethics Committee. I have attempted to identify all risks related to the research that may arise in conducting this research and acknowledge my obligations and the rights of the participants.*

*If there exists any affiliation or financial interest for researcher(s) in this research or its outcomes or any other circumstances which might represent a perceived, potential or actual conflict of interest this should be declared in accordance with Dublin City University policy on Conflicts of Interest.*

*I and my co-investigators or supporting staff have the appropriate qualifications, experience and facilities to conduct the research set out in the attached application and to deal with any emergencies and contingencies related to the research that may arise.*

**Electronic Signature(s):**

Principal investigator(s): 

Print Name(s) here: Kyrylo Khaletsky

Date: 28/02/2019

Supervisor:



Print Name(s) here: Martin Crane

Date: 28/02/2019

## 2. PROJECT OUTLINE

### 2.1 LAY DESCRIPTION (Max. 300 words)

*Please outline, in terms that any non-expert would understand, what your research project is about, including what participants will be required to do. Please explain any technical terms or discipline-specific phrases.*

The goal of this project is to create a fun, challenging and unique game. AI Race is a 3D racing game targeted at computer gamers and racing game enthusiasts, the game aims to enable users to drive around the track, either on their own or race against enemy cars. Enemy cars will implement various machine learning algorithms in order to drive around a track. AI race is created using Unity Game Engine and written in C#, it implements two main features, Racing mode and the Learning mode. Participants will be required to play the game and answer a questionnaire on their experiences with the game.

### 2.2 AIMS OF AND JUSTIFICATION FOR THE RESEARCH (Max. 400 words)

*State the aims and significance of the project. Where relevant, state the specific hypothesis to be tested. Please provide a brief description of background research, a justification as to why this research project should proceed in that context and an explanation of any expected benefits to the community. NB – all references cited should be listed in an attached bibliography.*

The aim of this project is to create an autonomous car to traverse a track and attempt to beat the users. The cars will be implementing Neural Networks. The built in Unity AI (framework which the game is based on) doesn't work well in my context therefore I must implement my own AI and compare it with the Unity built in one. The users will benefit by being provided a fun and challenging game they can play.

### 2.3 DESCRIBE THE METHODOLOGY BEING USED TO ACHIEVE YOUR STATED AIMS

*Provide an outline of the proposed method and state who is doing which task – include details of data collection techniques, the tasks participants will be asked to do, the estimated time commitment involved, and how data will be analysed. If the project includes any procedure which is beyond already established and accepted techniques please include a description of it. There should be enough detail provided to facilitate ethical review, but applicants are encouraged to keep it as succinct as possible.*

The participants will be asked to play the game and give their analysis and feedback, all tests will be done anonymously over a survey system. The data will be analyzed by looking at their feedback and scores they give and adjusting my game as such.

### 2.4 PARTICIPANT PROFILE

*Provide the number, age range and source of participants. Please provide a justification of your proposed sample size. Please provide a justification for selecting a specific gender, age, or any other group if this is done in your project.*

The participants will be anyone who decides to test the game, these will be friends, people in my course, any gender, and any age over 18.

### 2.4(a) PARTICIPANT VULNERABILITY

*Are some or all of participants vulnerable in any way? (e.g by virtue of the group they belong to, people who have undergone traumatic or adverse emotional events, people with diminished cognitive ability, power relations between researchers and participants etc.)? If they are, state what this vulnerability (or vulnerabilities) is and justify why this research is being done with such participants.*

My participants won't be vulnerable in any way. They are doing an anonymous survey and there won't be any input of personal data. Just opinions on the game.

**2.4(b) CHILD PARTICIPANTS (anyone under 18 years old)**

If your participants include children, you **must** confirm that you are in compliance with the research specific guidelines as detailed in "Keeping Children Safe - Policies and Procedures supporting Child Protection at DCU" - available at: [https://www4.dcu.ie/sites/default/files/policy/157%20-%20child\\_protection\\_handbook\\_rev1%282%29%281%29.pdf](https://www4.dcu.ie/sites/default/files/policy/157%20-%20child_protection_handbook_rev1%282%29%281%29.pdf)

Please indicate your compliance with the following guidelines:	Mark here
We confirm that we have read and agree to act in accordance with the DCU Child Protection policy and procedures	yes
We confirm that we have put in place safeguards for the children participating in the research	yes
We confirm that we have supports in place for children who may disclose current or historical abuse (whether or not this is the focus of the research)	yes

Although I agree to those guidelines none of my participants will be children.

**2.5 EXPLAIN HOW PARTICIPANTS ARE TO BE RECRUITED**

Please provide specific details as to how you will be recruiting participants. How will people be informed that you are doing this research? How will they be approached and asked if they are willing to participate? If you are mailing or phoning people, please explain how you have obtained their names and contact details. If a recruitment advertisement is to be used, please ensure you attach a copy to this application.

Users will be friends and family both from inside and outside the course, Most will be contacted in person or else over a survey I send to them over an email or a messaging service. I will ask them to play the game and answer a survey afterwards, it is completely their choice if they want to participate. The surveys will be done in dcu computing labs.

**2.6 PLEASE EXPLAIN WHEN, HOW, WHERE, AND TO WHOM RESULTS WILL BE DISSEMINATED, INCLUDING WHETHER PARTICIPANTS WILL BE PROVIDED WITH ANY INFORMATION AS TO THE FINDINGS OR OUTCOMES OF THE PROJECT?**

The results will be on my project documentation, therefore they will only be read by myself and examiners which will be correcting my project. These results won't be visible to anyone taking the survey.

**2.7 ARE OTHER APPROVALS REQUIRED TO GAIN ACCESS TO ANOTHER LOCATION, ORGANISATION ETC.?**

YES or NO

NO

(If YES, please specify from whom and attach a copy of the approval documentation. If this is not yet available, please explain when this will be obtained.)

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2.8 HAS A SIMILAR PROPOSAL BEEN PREVIOUSLY APPROVED BY THE DCU SCEC?

YES or NO

NO

*(If YES, please state both the REC Application Number and Project Title)*

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### 3. RISK AND RISK MANAGEMENT

#### 3.1 JUSTIFICATION OF STATED LEVEL OF RISK TO RESEARCH PARTICIPANTS

*You must provide a justification for the stated level of risk, as indicated on the cover page of your application. Note that the level of risk may be influenced by the vulnerability of the research group, the methods employed and the nature of the research itself. For further information on risk levels, please refer to the Levels of Review information on the website: <https://www.dcu.ie/researchsupport/researchethics.shtml>*

There are no risks involved in playing AI Race, there is no input of data, everything is purely click based. When users are asked to answer the questionnaire it will only have questions relating to the game, they won't be asked to input any personal details. Everything is anonymous.

#### 3.2 DOES THE RESEARCH INVOLVE:

	YES or NO
• use of a questionnaire? (attach copy)?	YES
• interviews (attach interview questions)?	NO
• observation of participants without their knowledge?	NO
• participant observation (provide details in section 2)?	YES
• audio- or video-taping interviewees or events?	NO
• access to personal and/or confidential data (including student, patient or client data) without the participant's specific consent?	NO
• administration of any stimuli, tasks, investigations or procedures which may be experienced by participants as physically or mentally painful, stressful or unpleasant during or after the research process?	NO
• performance of any acts which might diminish the self-esteem of participants or cause them to experience embarrassment, regret or depression?	NO
• investigation of participants involved in illegal activities?	NO
• procedures that involve deception of participants?	NO
• administration of any substance or agent?	NO
• use of non-treatment of placebo control conditions?	NO
• collection of body tissues or fluid samples?	NO
• collection and/or testing of DNA samples?	NO
• participation in a clinical trial?	NO
• administration of ionising radiation to participants?	NO

#### 3.3 POTENTIAL RISKS TO PARTICIPANTS AND RISK MANAGEMENT PROCEDURES

*Identify, as far as possible, all potential risks to participants (physical, psychological, social, legal, economic, etc.), associated with the proposed research. Please explain what risk management procedures will be put in place to minimise these risks.*

There are no risks.

#### 3.4 ARE THERE LIKELY TO BE ANY BENEFITS (DIRECT OR INDIRECT) TO PARTICIPANTS FROM THIS RESEARCH?

YES or NO

YES

*(If YES, provide details.)*

The participants will enjoy playing and interacting with my game.

**3.5 ARE THERE ANY SPECIFIC RISKS TO RESEARCHERS?**

*Examples include use of dangerous materials, asking certain types of questions, research being undertaken in certain locations, researchers working alone in isolated areas, etc.*

**YES or NO**

**NO**

*(If YES, please describe and explain what risk management procedures will be put in place to minimise these risks.)*

**3.6 DEALING WITH ADVERSE/UNEXPECTED OUTCOMES**

*Please describe what measures/protocols you have put in place in the event that there are any unexpected outcomes or adverse effects to participants arising from involvement in the project.*

I will take all results into consideration and modify my project accordingly, no results will be adverse, as every opinion matters. Whether I choose to take that opinion into account is my choice.

**3.7 HOW WILL THE CONDUCT OF THE PROJECT BE MONITORED?**

*Please explain how the principal investigator will monitor the conduct of the project (especially where several people are involved in recruiting or interviewing, administering procedures, etc.) to ensure that it conforms with the procedures set out in this application. In the case of student projects please give details of how the supervisor(s) will monitor the conduct of the project.*

The assessor will be present and record how long it takes for users to perform certain tasks. Other than that it is purely a question/rating based survey. If the user chooses to do it by themselves without any time exercises then that's also ok.

**3.8 SUPPORT FOR PARTICIPANTS**

*Depending on risks to participants you may need to consider having additional support for participants during/after the study. Consider whether your project would require additional support, e.g., external counselling available to participants. Please advise what support will be available.*

My participants won't need any support, but they are free to ask any question at any time.

**3.9 DO YOU PROPOSE TO OFFER PAYMENTS OR INCENTIVES TO PARTICIPANTS?**

**YES or NO**

**NO**

*(If YES, please provide further details.)*



- 3.10 DO ANY OF THE RESEARCHERS ON THIS PROJECT HAVE A PERSONAL, PHILOSOPHICAL, FINANCIAL OR COMMERCIAL INTEREST IN ITS OUTCOME THAT MIGHT INFLUENCE THE INTEGRITY OF THE RESEARCH, OR BIAS THE CONDUCT OR REPORTING OF THE RESEARCH, OR UNDULY DELAY OR OTHERWISE AFFECT THEIR PUBLICATION?

YES or NO

NO

*(If YES, please specify how this conflict of interest will be addressed.)*

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#### 4. INVESTIGATORS' QUALIFICATIONS, EXPERIENCE AND SKILLS (Approx. 200 words)

List the academic qualifications and outline the experience and skills relevant to this project that the PI, other researchers and any supporting staff have in carrying out the research and in dealing with any emergencies, unexpected outcomes, or contingencies that may arise. **State specifically who will be carrying out the research procedures**

Kyrylo Khaletsky will be carrying out this research, He is in final year of CASE (Computer Applications and Software Engineering) in DCU. The principal investigator (supervisor) is professor Martin Crane, he received his B.A. B.A.I. (Mech. Eng.) degrees from Trinity College Dublin in 1989 and my Ph.D. from the same institution in 1993. Since then he has worked in a variety of fields of Computational Science such as Computational Fluid and Solid Mechanics, Combustion Modelling, Financial Data Analysis and, more recently, Systems Biology. He has been at the School of Computing, Dublin City University as a Lecturer since 1999 and a Senior Lecturer since October 2007.

There won't be any emergencies/contingencies involved in this project. It is purely software based and there won't be any hardware involved, other than a computer which will be used by the participant. During the questionnaire with the participant can ask the assessor any question. There are no time limits on anything and everything can be done in their own time. There is no penalty to not completing a task, and the test can be terminated at any point.

#### 5. CONFIDENTIALITY/ANONYMITY

##### 5.1 WILL THE IDENTITY OF THE PARTICIPANTS BE PROTECTED?

YES or NO

YES

(If NO, please explain why.)

IF YOU ANSWERED YES TO 5.1, PLEASE ANSWER THE FOLLOWING QUESTIONS:

##### 5.2 HOW WILL THE ANONYMITY OF THE PARTICIPANTS BE RESPECTED?

Please bear in mind that where the sample size is very small, it may be impossible to guarantee anonymity/confidentiality of participant identity. Participants involved in such projects need to be advised of this limitation in the Plain Language Statement/Information Sheet. If you intend to fully anonymize the data, please provide details

##### 5.3 LEGAL LIMITATIONS TO DATA CONFIDENTIALITY

Participants need to be made aware that confidentiality of information provided cannot always be guaranteed by researchers and can only be protected within the limitations of the law - i.e., it is possible for data to be subject to subpoena, freedom of information claim or mandated reporting by some professions. This information should be included in your Plain Language Statement and Informed Consent Form. Depending on the research proposal and academic discipline, you may need to state additional specific limitations.

State how and where participants will be informed of these limitations

## 6. PERSONAL DATA - COMPLIANCE WITH THE GENERAL DATA PROTECTION REGULATION

*Personal data is data relating to a living individual (i.e. the 'Data Subject') who is, or can be, identified either from the data itself or from the data in conjunction with other information that is in, or is likely to come into, the possession of the 'Data Controller' (i.e. DCU and its constituent units e.g. research teams etc.). Further information on personal data is available from the DCU Data Protection Unit at <https://www.dcu.ie/ocoo/dp/guides.shtml>*

### 6.1 IS PERSONAL DATA BEING PROCESSED AS PART OF THIS PROJECT?

YES or NO
NO

<i>If YES, Please indicate your compliance with the following guidelines:</i>	Mark here
We confirm that we have read and agree to act in accordance with DCU Data Protection Unit guidance and procedures regarding personal data	
We confirm that we have put in place a Personal Data Security Schedule (PDSS) for the project and have attached it to this application	

*Please see the GDPR and the Research Ethics Process section of the [SCEC main webpage](#) for guidance*

IF YOU ANSWERED YES TO 6.1, PLEASE ANSWER THE FOLLOWING QUESTIONS:

### 6.2 WHAT KIND OF PERSONAL DATA IS BEING PROCESSED?

*Note special categories of personal data include health data, genetic data and/or data relating to ethnicity/race of participants, their sex lives and/or sexual orientation*

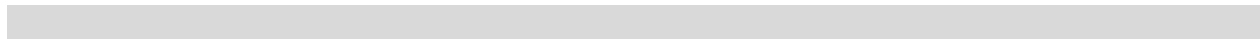
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### 6.3 WILL ANONYMISATION/PSEUDONYMISATION OF THE PERSONAL DATA BE UNDERTAKEN?

YES or NO
...

*(If NO, please explain why.)*

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## 7. DATA/SAMPLE STORAGE, SECURITY AND DISPOSAL

For the purpose of this section, "Data" includes that in a raw or processed state (e.g. interview audiotape, transcript or analysis). "Samples" include body fluids or tissue samples.

### 7.1 HOW AND WHERE WILL THE DATA/SAMPLES BE STORED?

Note that the SCEC recommends that all data be stored on campus – please justify any off-site storage.

The data will be stored on Google Survey, tied to a dcu google account.

### 7.2 WHO WILL HAVE ACCESS TO DATA/SAMPLES?

If people other than the main researchers have access, please name who they are and explain for what purpose.

Only the principal investigator and any examiners who wish to look at the results.

### 7.3 HOW LONG IS THE DATA TO BE HELD/RETAINED FOR?

Note that with very few exceptions **personal data** may not be retained indefinitely. It is up to the unit or research team to establish an upper retention limit for each category of personal data under its control.

Until the end of this project, which will be after an examiner marks it.

### 7.4 IF DATA/SAMPLES ARE TO BE DISPOSED OF, PLEASE EXPLAIN HOW, WHEN AND BY WHOM THIS WILL BE DONE?

Note that simply deleting files is not sufficiently secure. The additional steps to be taken to maintain data security should be given. **Personal data** must be disposed of in a safe and secure manner at the end of its retention period. If the data is stored in a: a) paper based format then shredding or disposal via a secure bin is recommended; or b) if it is stored in an electronic based format then deletion of the record or full anonymization of the data is recommended. If data/samples are NOT being disposed of, please justify this decision.

The data will be deleted immediately when the examiner corrects my project.

## 8. FUNDING OF THE RESEARCH

### 8.1 HOW IS THIS WORK BEING FUNDED, IF IT IS EXTERNALLY FUNDED?

It's not funded

### 8.2 PROJECT GRANT NUMBER *(If relevant and/or known – otherwise mark as N/A)*

N/A

### 8.3 DOES THE PROJECT REQUIRE APPROVAL BEFORE CONSIDERATION FOR FUNDING BY A GRANTING BODY?

YES or NO

NO

### 8.4.1 HOW WILL PARTICIPANTS BE INFORMED OF THE SOURCE OF THE FUNDING? *(e.g. included in the Plain Language Statement)*

N/A

### 8.5 DO THE FUNDERS OF THIS PROJECT HAVE A PERSONAL, FINANCIAL OR COMMERCIAL INTEREST IN ITS OUTCOME THAT MIGHT COMPROMISE THE INDEPENDENCE AND INTEGRITY OF THE RESEARCH, OR BIAS THE CONDUCT OR REPORTING OF THE RESEARCH, OR UNDULY DELAY OR OTHERWISE AFFECT THEIR PUBLICATION?

YES or NO

NO

*(If YES, please specify how this conflict of interest will be addressed.)*

A Plain Language Statement (PLS) should be used in all cases. This is written information in plain language that you will be providing to participants, outlining the nature of their involvement in the project and inviting their participation. The PLS should specifically describe what will be expected of participants, the risks and inconveniences for them, and other information relevant to their involvement. Please note that the language used must reflect the participant age group and corresponding comprehension level – if your participants have different comprehension levels (e.g. both adults and children) then separate forms should be prepared for each group. The PLS can be embedded in an email to which an online survey is attached, or handed/sent to individuals in advance of their consent being sought. See link to sample templates on the website: <https://www.dcu.ie/researchsupport/ethicsapproval.shtml>

**PLEASE CONFIRM WHETHER THE FOLLOWING ISSUES HAVE BEEN ADDRESSED IN YOUR PLAIN LANGUAGE STATEMENT/ INFORMATION SHEET FOR PARTICIPANTS:**

	YES or NO
Introductory Statement (PI and researcher names, school, title of the research)	YES
What is this research about?	YES
Why is this research being conducted?	YES
What will happen if the person decides to participate in the research study?	YES
How will their privacy be protected?	YES
How will the data be used and subsequently disposed of?	YES
What are the legal limitations to data confidentiality?	NO
What are the benefits of taking part in the research study (if any)?	YES
What are the risks of taking part in the research study?	NO
Confirmation that participants can change their mind at any stage and withdraw from the study	YES
How will participants find out what happens with the project?	NO
Contact details for further information (including SCEC contact details)	YES
Details relating to GDPR Compliance if Personal Data is being sought	NO

*If any of these issues are marked NO, please justify their exclusion:*

<p>There are no legal limitations</p> <p>There are no risks involved in participation</p> <p>The users won't find out what happens to the project</p> <p>There is no personal data involved in the project or questionnaire</p>
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In most cases where interviews or focus groups are taking place, an Informed Consent Form is required. This is an important document requiring participants to indicate their consent to participate in the study, and give their signature. If your participants are minors (under 18), it is best practice to provide them with an assent form, while their parents/guardians will be given the Informed Consent Form. In cases where an anonymous questionnaire is being used, it is enough to include a tick box in the questionnaire (underneath the information section for participant), where participants can indicate their consent.

See link to sample templates on the website: <https://www.dcu.ie/researchsupport/ethicsapproval.shtml>

**NB – IF AN INFORMED CONSENT FORM IS NOT BEING USED, THE REASON FOR THIS MUST BE JUSTIFIED HERE.**

[illegible]

# PLAIN LANGUAGE STATEMENT

## 1. Introduction to the Research Study

- This research is being conducted as part of the user testing for Kyrylo Khaletsky's fourth year project 'AIRace'.
- The research is being conducted by Kyrylo Khaletsky, a BSc student in the School of Computing, in DCU.
- Kyrylo Khaletsky can be contacted at [kyrylo.khaletsky2@mail.dcu.ie](mailto:kyrylo.khaletsky2@mail.dcu.ie)

## 2. Details of Involvement in the Study

- Participants will be required to be available for a short questionnaire where they will be asked to perform some simple tasks on the provided game 'AIRace'.
- There will be a small "timing exercise" where the assessor will record how long certain tasks take.
- Depending on their feedback, necessary adjustments will be made.
- In total the questionnaire will less than 15 minutes in total.
- This will take place in between March - April 2019

## 3. Potential Risks to Participants arising from involvement in the Research Study

- It is not envisaged that there are any risks to participants arising from involvement in the study.

## 4. Benefits (direct or indirect) to Participants

- The participants will have fun and enjoying playing "AIRace".

## 5. Procedures aimed at protecting confidentiality

- Every effort will be made to respect participants' anonymity.
- The data collected will be analyzed by the principal researcher alone.
- Participants' will be anonymous to the researcher.
- Transcripts of the questionnaire will be held by the principal researcher and stored in a secure location until they are deemed non-essential and then destroyed. The questionnaire can also be accessed by the examiner (lecturer).

## 6. Data Destruction

- It is planned that the data will be destroyed within six months from the time you take the questionnaire and time exercise.

## 7. Voluntary Participation

- Participants may withdraw from the Research Study at any point. There will be no penalty for withdrawing before all stages of the Research Study have been completed

## 8. Additional Information

- It is envisaged that in total approximately 10 participants will be interviewed as part of this study.
- If participants have concerns about this study and wish to contact an independent person, please contact: The Secretary, Dublin City University Research Ethics Committee, c/o Office of the Vice-President for Research, Dublin City University, Dublin 9. Tel 01-7008000

# INFORMED CONSENT FORM

## Research Study Title

The study in which you are being is part of a broader testing format for the game 'AIRace'. It is being conducted by Kyrylo Khaletsky, a BSc student in the School Computing, in DCU.

## Purpose of the Research

The purpose of this research is to measure how usable and enjoyable the user interface of AIRace is, also you will be asked to see how fast you can drive around a track.

## Confirmation of particular requirements as highlighted in the Plain Language Statement

As stated in the Plain Language Statement, participants in this research will be requested to participate in a short questionnaire where they will be asked to perform some simple tasks on the provided Game. There will also be a small "Timing Exercise" which will involve the assessor recording how long it takes the participant to perform certain tasks.

Participant – please complete the following (Circle Yes or No for each question)

Have you read or had read to you the Plain Language Statement?	Yes/No
Do you understand the information provided?	Yes/No
Have you had an opportunity to ask questions and discuss this study?	Yes/No
Have you received satisfactory answers to all your questions?	Yes/No

Participants' involvement in this study is totally voluntary. As a participant you may withdraw from the Research Study at any point. **There will be no penalty for withdrawing** before all stages of the Research Study have been completed.

## Arrangements to protect confidentiality of data

Every effort will be made to respect participants' anonymity. The data collected will be analysed by the principal researcher alone. Participants' actual names will be protected.

Transcripts of the will be held be the principal researcher and stored in a secure location until they are deemed non-essential and then destroyed.

## Signature

I have read and understood the information in this form. My questions and concerns have been answered by the researchers, and I have a copy of this consent form. Therefore, I consent to take part in this research project

Participant's Signature: \_\_\_\_\_

Name in Block Capitals: \_\_\_\_\_

Date: \_\_\_\_\_



# AIRace Questionnaire

## **Mandatory (Game & Racing Mode):**

1. How long did it take you to start the game? (rating 1-5)
2. How would you rate the usability of the user interface? (rating 1-5)
3. How readable/accessible are all the buttons/text/images in the game/user interface? (rating 1-5)
4. What would you change/add to the user interface? (Participant input, optional)
5. How you rate the sound design of the game (button sounds, engine sounds, etc.)? (rating 1-5)
6. What would you change/add to the sound design? (Participant input, optional)
7. How helpful was is the “Help” section of the game? (rating 1-5)
8. What would you change about the “Help” section of the game? (Participant input, optional)
9. How would you rate the driving mechanics/physics of the cars? (rating 1-5)
10. What would you change/add to the driving mechanics/physics of the cars? (Participant input, optional)
11. Out of the first 3 laps what is the time you can perform in a Time Trial when using the “GTO” car (input the times of your first 3 laps)? (Participant input, time)
12. What is the best time you can perform in a Time Trial when using the “GTO” car (spend as little or as much time practicing as you like)? (Participant input, time)
13. When in “Competition Mode” which car did you choose? (Participant input)
14. When in “Competition Mode” what place did you come in? (Participant input, number)
15. How “Challenging” did you find the opponent cars you raced against? (rating 1-5)
16. How would you rate the graphics when in a game? (rating 1-5)
17. How would you rate the game overall? (rating 1-5)
18. Is there anything wish to recommend/comment on? (Participant input, optional)

## **Optional (Learning Mode):**

Details on how to use learning mode and what it does can be found at the “Help” section of the game. There you will find what each setting does and how to use this feature. The testing of this feature is optional, and you can perform it as many times as you like.

1. What “Fitness” function did you use? (Participant input)
2. What was your “Population Size”? (Participant input)
3. What was your “Sensor Length”? (Participant input)
4. Which car did you pick? (Participant input)
5. How many generations did it take for the car to complete 1 lap? (Participant input, number)
6. What is the best time your car performed around the track? (Participant input, time)
7. How was your overall experience with “Learning Mode”? (rating 1-5)
8. What would you add/change about “Learning Mode”? (Participant input, optional)