

FREE AND INFORMED CONSENT FORM (TCLE)
Fluminense Federal University
COMPUTING INSTITUTE

Project Title: *Educa 360 – Research and Innovation in Multisensory Experiences for Education and the National Research and Extension Network (RENACEE_MD)*

Principal Investigators: Débora Christina Muchaluat Saade and Luciana Cardoso de Castro Salgado.

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Participant's Name: _____.

Legal representative: _____.

Please read the following carefully and ask any questions you may have. If you feel satisfied with the information in this document and agree that the adolescent under your responsibility will participate in the study, please sign at the end of this document, in duplicate, one copy for you and the other for the researcher responsible for the study.

The person under your responsibility is being invited to participate in the **Educa 360 Hackathon**, a technology creation event that is part of the **Educa 360 research project and the National Research and Extension Network (RENACEE_MD)**. **Educa 360, Research and Innovation in Multisensory Experiences for Education**, is coordinated by researcher **Débora Christina Muchaluat Saade**, and RENACEE_MD is coordinated by researcher **Luciana Cardoso de Castro Salgado**.

This research aims to understand how the use of the EVA robot can **contribute to the learning, creativity, and increased interest of girls and women in STEM fields**, especially Computer Science, aiming for a more diverse gender distribution in Brazilian Science.

The event activities will be held in person, at participating schools and at the UFF Institute of Computing, in 5 meetings lasting approximately 2 hours each, taking place between October 7th and November 12th. The event will follow the following schedule:

- 1st meeting: presentation of the Educa360 project, the objectives of the hackathon, and the EVA robot and its functionalities with a demonstration;
- 2nd meeting: presentation of the creation approach, organization of student/teacher teams for the Hackathon and start of work on the application project for the Eva robot;

- 3rd meeting: presentation of the EvaML programming language and the EvaSIM simulator;
- 4th meeting: continued development of projects by the groups;
- 5th meeting: finalization of project development by the groups with the execution of each project on the robot.

During the meetings, participants' perceptions and knowledge will be collected through questionnaires, interviews, photos, and videos of the meetings.

In order to mitigate discomfort such as fatigue, boredom, or other feelings during the questionnaire or interview process, we used a set of closed and open-ended questions to optimize participants' time, focusing on issues relevant to our study. Furthermore, all questions are optional, allowing participants to answer or not answer if they do not feel comfortable.

The information obtained will be treated confidentially and stored securely for a period of 1 year after this date or until the completion of the written work. All data collected will be used exclusively for research purposes, guaranteeing the confidentiality of personal information.

If the participant feels uncomfortable for any reason, they may choose not to respond or even cancel their participation in the activities without needing to explain themselves to this researcher or any other party involved in this research. If the activity is interrupted, all data collected related to it will be completely deleted and will not be included in the research data analysis.

The expected benefits for participants include the development of skills related to computational thinking and an increased interest in the field of Computer Science. The community will also benefit from any educational products produced by participants during the event.

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Research Ethics Committees (RECs) are composed of individuals who work to ensure that all research projects involving human subjects are approved in accordance with the ethical standards established by the Ministry of Health.

The evaluation by Ethics Committees (CEPs) considers the benefits and risks, seeking to minimize them and ensuring that participants have access to all rights guaranteed by regulatory agencies. Thus, the CEPs seek to defend the dignity and interests of participants, encouraging their autonomy and voluntary participation. Find out if this project has been approved by the Ethics Committee of this institution. If you have any questions or would like further information, please contact the Ethics Committee of the Faculty of [Faculty Name].

Medicine at the Federal Fluminense University (CEP FM/UFF), by email or Telephone, Monday to Friday, from 8:00 AM to 5:00 PM:

Mobile/Whatsapp: (21) 99769-8644, Landline: (21) 2629-9310

Email: etica.ret@id.uff.br

I, _____, I declare that I have been
having been informed about the objectives and procedures of the research project above
described the participant I agree what
_____ participate
I am participating voluntarily in this research.

Niterói, _____ of _____ 2025.

(Name and signature of the person in charge)

Débora Christina Muchaluat Saade
Principal Investigator

Luciana Cardoso de Castro Salgado
Principal Investigator