



Registration Form

TEAM INFORMATION

Team Name/Project Title:

Team Simbio/Pacemaker Training Simulator

Department:

Department of Bioengineering

Faculty Advisor(s):

Shaun Boulier

Primary Team Contact, email:

Anika.Noor@ucdenver.edu

Team Members (full name, e-mail):

Alexander Ho, Alexander.2.Ho@ucdenver.edu

Keegan Jarris, Keegan.Jarris@ucdenver.edu

Anika Noor, Anika.Noor@ucdenver.edu

PROJECT INFORMATION

Description:

Provide a one-sentence, **25 words or less** description of the project. This will be printed in the event program.

Team Simbio has developed a novel and effortless pacemaker training simulator to help clinicians at Children's Hospital train nursing students on external pacemaker usage.

Abstract:

Provide a brief summary of the project, **250 words or less**.

Clinicians at the Children's Hospital have struggled to successfully train nursing students on how to use a pacemaker without the use of a real-life scenario. This has limited the amount of times they can actually train on a pacemaker, and has made training very stressful and challenging.



An easier and more readily available method of pacemaker training for nursing students has been developed by Team Simbio so that the clinicians can train nursing students more effectively. This training method integrates a real external pacemaker with Python code developed by the team. A converter circuit housed in a 3d-printed PLA box has also been developed so that the pacemaker pulses are successfully transferred into the computer.

Illustration:

N/A

If you want to add a picture to your project description please email in .jpg format to erica.lefeave@ucdenver.edu (Limit 20 MB).

ACCOMMODATIONS:

Each team is provided:

- 6' table with a black tablecloth
- immediate floor space in front of the table
- one (1) easel

If you require additional easels, more space, power outlets, or other accommodations, please indicate below. Accommodations not accounted for on the registration form may not be available on the day of the event, so please plan accordingly. Extension cords and power outlets may be shared with other teams.

- Additional easel(s)
 Power Outlet(s)
 Extension Cord
 Extended Floor Space (area required (xx ft by xx ft):
 Other:
 Check here if you do NOT need a table

Teams are required to make their own accommodations for the following equipment: computers, TVs, projectors, and power strips (if multiple outlets required).