

Dana Sim

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Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Engineering Physics w/ concentration in Computational Physics
Minors in Mathematics and Computer Science

December 2019

GPA: 3.83/4.00

College of Engineering Dean's List | Fall 2016, Spring 2017, Fall 2018
Department of Physics Robert A. Stein Scholarship Recipient | Spring 2019
Illinois Engineering Achievement Scholarship | Fall 2019

University of Bristol, United Kingdom (Study Abroad)

January 2018 – June 2018

Skills

- **Software:** C++, Lua, Python, JavaScript
- **Programs:** ROBLOX Studio, Squish GUI Testing, Unity Game Engine, Audacity, iMovie
- **Projects:**
 - Unity video games and more (<https://vixro.github.io/danasim98.github.io/>)
 - SWE Illinois website (<https://www.societyofwomenengineers.illinois.edu/>)

Professional Experience

ROBLOX Internship – San Mateo, California

Summer 2018, 2019

Studio Team Intern

- Interacted directly with the tool used to create and deliver games to over millions of players worldwide.
- Engineered automated tests using Squish to ensure functionality and stability of ROBLOX studio.
- Resolved bugs and implemented new features in source code for an enhanced developer experience.

Avatar Team Intern

- Developed the new Lua humanoid object, exposing the original C++ object to developers.
- Designed and conducted tests to determine the highest-performing model for the new skinned avatar.
- Discussed and proposed solutions to advanced problems dealing with client-server communications.

Research Assistant – Champaign-Urbana, Illinois

September 2016 – October 2017

Lab Assistant for Dr. Alfred Hubler

- Conducted research on the spontaneous recovery of nanocapacitors with high voltage breakdowns.
- Drafted and edited multiple research papers in preparation for publication.

Leadership Experience

Society of Women Engineers – Champaign-Urbana, Illinois

April 2018 – June 2019

Officer Board Information Director

- Organized and maintained the weekly newsletter, members' point system, and record of events.
- Led and volunteered at professional, community service, and outreach related events.

Summer Mission Trip – León, Nicaragua

May 2017 - August 2017

Vacation Bible School Team Leader

- Directed, mentored, and motivated a team of high-schoolers for 40 hours/week.
- Operated and oversaw a Vacation Bible School program for a week with over four hundred children.