

Glenn Dusing

Contact

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Education

University of Illinois at Chicago

Aug 2019 - May 2022

Honors College

Degree (B.S.) in Engineering Physics

Senior Design Project

- Collaboration with NASA JPL and Arizona State University to construct a rover for the Psyche mission
 - Responsible for LiDAR SLAM programming on Jetson Nano
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Programming Languages

- Python
 - C++
 - HTML
 - JavaScript
 - CSS
 - Vue.js
 - ROOT (CERN) Compiler
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Awards

Liberal Arts and Sciences Undergraduate Research Initiative (LASURI):

Fall 2020 and Spring 2021

Undergraduate award in the College of Liberal Arts and Sciences to the students working on research with a faculty member

UIContest:

Spring 2020

Undergraduate award within the Physics Department designed to enhance educational experiences of students conducting research

Work Experience

PEER LEADER AT MATH AND SCIENCE LEARNING CENTER, UIC | 2019 - Present

- Coordination with course professors and classroom assistance for physics courses PHYS 142 (General Physics II) and PHYS 101 (Active Learning of the Physical World)
 - Holding of office hours outside of class times to further support and assist student learning
 - Holding review sessions for students outside of class time
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COMPUTER SCIENCE INTERN, MONTEL TECHNOLOGIES | Summer 2019

- Computer aided design using Fusion360
 - Front-end development using HTML, CSS, and Javascript, in Vue.js
 - Data mining and image annotation for machine learning
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Academic Work

Auburn University CASE REU

- Under guidance of Dr. Christopher Harris, testing runtimes and top-1 and top-5 performances of GoogLeNet, AlexNet, and ResNet-18 on the Nvidia Jetson Nano 2GB embedded system with ILSVRC-2012 dataset
- Transfer learn GoogLeNet to the CIFAR-10 dataset
- Use of PyTorch and Tensorflow with python

University of Illinois at Chicago

- Application of traditional data analysis and machine learning for the CMS experiment at CERN to study resonance signatures of the Z and Higgs Boson
- All algorithms written in C++ and python using the ROOT compiler developed by CERN
- Working closely with Dr. Corrinne Mills, postdoctoral researchers, and graduate students

Illinois State University

- Investigation of quantum mechanical models (Path Integral Quantum Trajectory) using computational methods in Fortran
 - Presentation of research at ISAAP fall 2018 and spring 2019 meetings (Illinois Section of the American Association for Physics Teachers)
 - Presentation of research at Illinois State University Undergraduate Research Symposium in spring 2019
 - Presentation of research at Department of Atomic, Molecular, and Optical Physics annual meeting 2019
 - Working closely with professor Dr. Allison Harris and other undergraduate students
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