

Stephen Richard Zhu

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EDUCATION

- Stanford University September 2023
- M.S. in Electrical Engineering
- University of Illinois at Urbana Champaign | GPA: 3.94/4.0 August 2019 – May 2023
- B.S. in Electrical Engineering, Minor in CS
- BASIS Independent Silicon Valley (BISV) | GPA: 3.94/4.0 August 2015 – May 2019

EXPERIENCE

- Research Intern at UIUC Spring of 2022 - 2023
- Designed and prototyped a small modular robot for large-scale 2D molecular simulations
 - Sought and obtained research funding independently
 - Constructed cable-driven soft robot and wrote undergraduate thesis
- Software Intern at ASML Summer of 2021
- Prepared images for error analysis through image registration
 - Experimented with various edge detectors and misalignment indices
- Research Intern at Stanford University Summer of 2020
- Researched methods to analyze dehydration levels through wearable sensors
 - Worked for a postdoc and oversaw a junior member
- Software Intern at Anx Robotica Summer of 2019
- Trained a model to denoise images taken through endoscopy
 - Achieved PSNR (denoising magnitude) of 41.47 & SSIM (image retention) of 0.9918

SKILLS & ACHIEVEMENTS

Languages: Python, Java, C, C++, HTML5 & SystemVerilog (familiar); Japanese (intermediate)

Programs: MatLab, Eagle, SolidWorks, Fusion 360, Altera Quartus, Quartus Prime, LTspice (familiar)

- UIUC Course: Control Systems Fall 2022
- Designed and actualized a self-balancing upright pendulum arm
- UIUC Course: Digital System Laboratory Spring 2021
- Implemented Pacman from scratch on Intel DE10-Lite FPGA
- Eagle Scout Rank in Boy Scouts of America January 28, 2019
- Set up guidelines for organizing events and trained younger scouts as the Senior Patrol Leader
- Patents: US Pat. No. 10,283,003 & CN Pat. No. ZL201821449355.9 Filed on September 9, 2017
- Designed electronic system for Alzheimer's patients to find their belongings

VOLUNTEERING

- Loloma Foundation – Solomon Islands Summers of 2017 and 2018
- Assisted doctors and initiated project to deliver glasses for villagers