

# Shengfan Hu

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[https://fan01111011.github.io/My\\_Website/index.html](https://fan01111011.github.io/My_Website/index.html) (In process)

## Education

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**University of California San Diego**, *Computer Engineering MS*

Mar 2022 - Present

- Overall GPA 3.65 Major GPA 3.65
- **Coursework:** Data Structure, Algorithm, Computer Architecture

**University of California San Diego**, *Electrical Engineering BS*

Sep 2019 - Mar 2022

- Overall GPA 3.60 Major GPA 3.76
- **Coursework:** Electronic Circuit, Signal Processing, Advanced Digital Design Project

## Work Experience

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**UCSD ECE Tutor**

06/2021 - present

- Tutored 150+ of class in System Verilog and Analog Circuit
- Received 90+% positive review from Professor and student

**Volunteer in Care Mission**

12/2014 -12/2020

- This group (Care Mission) is a charity group mainly serving hot food for the homeless in LA Skid Row.
- I did multiple jobs in this group, cook, driver, security, organizer, youth group leader

## Research Experience

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**Undergraduate Student Researcher UCSD CMRR**

09/2020 - Current

- Assisted with the projects in the lab
- Helped PI with the final chapter of his Doctoral thesis.
- Published one paper and one of the finished projects became a pending US Patent.

## Skills

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**Programming Languages:** C, C++, Python, Labview, Legv8 Assembly, System Verilog, Html, CSS, Javascript

**Other Skills:** Circuit Design, Soldering, 3D print, Arduino, ESP 32

## Projects

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**Vaginal dilator control system -- Pending US patent (CMRR Lab project)**

- A closed-loop telemedical system to relieve the effect of vaginal stenosis that caused by radiation therapy
- Two microcontrollers were used to collect and process the data, control the expansion of vaginal dilator
- A user friendly interface was display on a LCD screen to guide the medical doctors and patient to use the system

**Low cost lab heater (CMRR Lab project)**

- Used Matlab and PID to control the temperature
- Reduced the size do the previous heater, used less voltage and less power to get expected temperature
- Decrease the range of the temperature changing from  $\pm 3^{\circ}\text{C}$  to  $\pm 0.3^{\circ}\text{C}$