Shengfan Hu

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https://fan01111011.github.io/My_Website/index.html **(In process)**

Education

University of California San Diego, *Computer Engineering MS*
Mar 2022 - Pesent

- Overall GPA Null Major GPA Null
- **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

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, organizator, youth group leader

Research Experience

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

Programming Languages: C, C++, Python, Labview, Legv8 Assembly, System Verilog, Html, CSS, Javascript
Other Skills: Circuit Design, Soldering, 3D printer, Arduino, ESP 32

Projects

Low cost lab heater (CMRR Lab project)

- Used Matlab and PID to control the temperature
- Smaller volume and use less voltage and less power to get expected temperature
- Decrease the range of the temperature changing from ± 3°C to ±0.3°C

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

- Three Arduinos which connected to each other with UART and digital pins were used
- The system can collect the volume data, temperature data, pressure data inside of the dilator. Then, display them on the screen module.
- A water valve and a pump were controlled by the Arduino system to expand the dilator.