



EDUCATION

Glasgow college, University of Electronic Science and Technology of China

Sep 2018 - Jul 2022

Electronic Information Engineering Bachelor

GPA: 3.5/4.0

IELTS:7.0

Main Courses : Digital signal processing , Field and Wave Electromagnetics , Circuit Analysis and Design

RESEARCH EXPERIENCE

An image logical operation unit inspired by human retina

Apr 2021 - Jun 2021

research assistant Photoelectric detection and sensing laboratory , UESTC

Chengdu

- Designed bionic analog logic-gate circuit referring to the human retina
- Eliminate noise in electric currents deriving from the power source
- Test digital logic to ensure accuracy of image processing

A CNN for MNIST Handwritten Digit Classification

Mar 2021 - May 2021

Introduction to Deep Learning Course Program I UESTC

Chengdu

- Established two Convolution layers and Pooling layers as the main structure of the neural network
- Adopted BP algorithm, SGD, momentum algorithm to detect and classify handwritten digits.

Noninvasive blood glucose detection with flexible two-dimensional materials

Jul 2019 - Mar 2021

research assistant Information materials and devices team, UESTC

Chengdu

- Applied reverse iontophoresis methods to detect glucose from interstitial fluid to the skin surface
- Realized the analog circuit design of biological current's amplification and filter
- Developed a website and an Android application to demonstrate the data using server in Alibaba Cloud
- Established the correlation between the peculiarity of reflected electromagnetic wave(0.5GHz-3GHz) and the concentration of blood glucose by using various data analysis methods predominantly involved Gaussian Process

Portable finger pulse monitor

Aug 2018 - Jan 2019

Microelectronic System Course Program, Glasgow

Chengdu

- Built a green light detection module and connected it to an LCD screen.
- Programmed based on MBED platform adopting moving average filter algorithm to capture pulse frequency.

LEADERSHIP EXPERIENCE

The 7th China International College Students' "Internet+" Innovation and Entrepreneurship Competition

Mar 2021 - Dec 2021

Team member

- Provincial Third Prize
- Apply for a design patent

College Students' Innovation and Entrepreneurship Competition

Sep 2019 - Aug 2020

Team leader

- Excellent reward
- Patent: A WIFI-based blood glucose meter cloud system
- Paper in preparation: A wireless glucose sensor based on surface functionalized MXene