

Shih-Cheng Peng

🏠 MyWebsite ✉️ st282238@gmail.com 🔄 Pengsc0616 🌐 LinkedIn

Summary

I am an undergraduate in the CS Department at National Chiao Tung University, and also currently a wireless technical intern at Intel since July 2020. Passionate about network programming, especially wireless network, and also actively try different development boards and IoT environments.

Education & Academic Performance

National Chiao Tung University

Hsinchu City, Taiwan

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (GPA 3.99/4.3)

Sep. 2017 - June 2021

- NCTU IEEE Eta Kappa Nu Honor Society Candidate
- Dean's list given by NCTU, 2018

Work Experience

Intel Corporation-CCG Wireless Team

WIRELESS TECHNICAL INTERN | C++, C#, PYTHON

July 2020 - PRESENT

- **Bluetooth 5.2 Advertisement Demonstration**
 - Implemented the latest BT LE Extended Advertising with 2x speed, 4x range, and 8x data size compared to Bluetooth 4.
 - Built Windows API to interact with customized sender created by HCI commands.
 - Using debugging tools Ellisys and BTVS to analyze data transferring.
- **Building MicroAPITester for PIE**
 - Implemented the SDK APIs in a dynamic link library (DLL) for PIE (Intel® PROSet/Wireless WiFi Software extension).
 - Designed a user-level application to communicate with Intel® Dual Band Wireless-AC and Intel® Wireless-AC/AX products.

Automatic Temperature Detection and Facial Recognition System

RESEARCH ASSISTANT | HIGH SPEED COMMUNICATION & COMPUTING LABORATORY | LINUX, PYTHON, OPENCV, ROS

July 2019 - June 2020

- Combined IoT and Network to create an abnormal temperature warning system.
- Using JetBot performs the object following, OpenCV as a tracking system, and IoTtalk as a communication platform.

Project & Course Experience

Real Estate Market Query System

INTRODUCTION TO DATABASE SYSTEM | MYSQL, PYTHON, JS, PHP, HTML

Spring 2020

- Created a website where users could visualize trends in the housing market by looking at real-estate transaction history.
- Using Apache Server to execute PHP and interact with users by providing HTML and receiving users' input.

Battleship Game with IoT

DESIGN AND IMPLEMENT OF IOT APPLICATIONS | JS, JQUERY, CSS, HTML, PYTHON

Spring 2020

- Created a game combining IoT and Battleship.
- Two players take turns guessing the position of the opponent's warship through IoTtalk Platform with low latency.

IoTtalk Application Design and Implementation / Synopsys-ARC IOTDK

DESIGN AND IMPLEMENT OF IOT APPLICATIONS, INTERNET OF THINGS BASIC DESIGN AND IMPLEMENTATION | C, PYTHON, JS

Spring 2020

- Implemented IoT peripheral sensor and wireless communication device in ESP8266, Raspberry Pi, and ARC IOTDK embedded board.

Robot Operating System (ROS 1 & 2)

TAOYUAN ROS SUMMER COURSE AND COMPETITION | PYTHON

Aug. 2019

- Designed system for operating robots with multiple models and implemented SLAM and automatic navigation system for robots.

Leadership & Extracurricular Activities

NCTU Computer Science Inheritance Plan Vice-President

2018

- Along with NCTU alumni association and fellow Computer Science students, invited other former students in the industry to serve as "parents" for students and assist in future planning for the "families".

Southern Taiwan Returning Home Service Minister-of-Instructor-Department

2019

- Accompany children who live in remote rural areas in the southern Taiwan; giving back to society and practicing the ideal of serving society.