

GUANG HUI LIEW

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SKILLS

Python, C++, C, Perl, Java, HTML, CSS, Git, Linux, Altium, Soldering, Lab Equipment

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES

Los Angeles, CA

Bachelor of Science: Electrical Engineering

Dec 2018

Related Coursework: C++, Java, Data Abstract & Structures, Probability and Statistics, Computer Organization, Signals & Systems, Logic Design of Digital Systems, Embedded Networked Systems Design, Circuit Theory, Semiconductor Device, Technology Management

DE ANZA COLLEGE

Cupertino, CA

Electrical Engineering

June 2016

WORK EXPERIENCE

Micron Technology, Inc.

Singapore

Product Engineer

August 2021 – Present

- Conduct Electrical Failure Analysis of NAND products using **Magnum tester** and **lab equipment**.
- Analyze and visualize test data using **JMP** to identify product quality issues.
- Collaboration on **Python** script development to speed up engineering debug process by parsing and processing Logic Analyzer trace information to **SQLite** Database and automate first-level checks to narrow down problem.

Silicon Laboratories, Inc.

Singapore

Product Test Engineer

July 2019 – July 2021

- Launched IoT module products from design stage to market while meeting NPI targets by working collaboratively with cross-functional teams and suppliers on identifying and solving engineering problems.
- Developed production grade test programs with low test time and high test coverage using **C** and **Perl**.
- Automated radio frequency validation process and reduced validation time by 30% by writing **Python** scripts that interact with tester instruments and device under test.
- Designed test hardware schematic and layout for new products that enable additional RF test capabilities using **Altium**.
- Trained technician to perform soldering and RF validation tasks to reduce workload from engineers.
- Organized company-wide events as a treasurer of recreational committee.

NANTERO

Sunnyvale, California

Electrical Engineering Intern

July 2018 – September 2018

- Verified and simulated carbon nanotubes memory device analog designs using **Cadence Virtuoso**.
- Implemented bitmaps on memory chips as references for design team.

PROJECTS

Stock Brew

September 2021

- App: share.streamlit.io/ghliew/stockbrew
- A web application that summarizes S&P500 stock prices with RSI analysis and live Tweet sentimental analysis.
- Technologies used: **Python, Pandas, Matplotlib, Textblob, Tweepy, Yfinance, Streamlit**

Crypto Watch

August 2021

- App: share.streamlit.io/ghliew/cryptowatch
- A web application that displays prices of cryptocurrencies and map of tweets with access to database.
- Technologies used: **Python, Pandas, MongoDB, Geopy, Folium, Tweepy, Yfinance, Streamlit**

Internet of Things Design Project

Jan 2018 – June 2018

- An IoT embedded system that provides dumbbell weightlifting gesture guidance.
- Acquired motion data from sensors and performed real time data processing and classification with machine learning algorithm.
- Technologies used: **BeagleBone IoT Prototyping Kit, SensorTile, FANN Machine Learning, Linux**

Micromouse

Sep 2016 – Jun 2017

- A custom-built maze solving robot that utilizes sensors and controller systems.
- Collaborated with a team of 3 at UCLA IEEE to design schematic and layout and coded the program for **Teensy**.
- Technologies used: **C++, Microcontroller, IR Sensor, Encoder, Gyroscope, PID Controller, EAGLE**

ADDITIONAL INFORMATION

Interests: Application development, Automation, Data Analysis, User Experience, Basketball, Hiking

Languages: English, Chinese, Malay