GUANG HUI LIEW

liewgh1995@gmail.com • ghliew.github.io
linkedin.com/in/guang-hui-liew/ • github.com/ghliew

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, Inc. — 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