GUANG HUI LIEW

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SKILLS

Python, C++, C, Perl, Java, Git, Linux, Altium, Embedded Systems, Soldering, Lab Equipment

EDUCATION

Texas A&M University College Station, TX
Master of Computer Science *Aug'22 – May'24*
Coursework: Deep Learning, Reinforcement Learning, Mobile Wireless Networking

University of California, Los Angeles Los Angeles, CA
Bachelor of Science: Electrical Engineering *Sep'16 – Dec'18*
Coursework: C++, Java, Data Abstract & Structures, Probability and Statistics, Computer Organization,
 Logic Design of Digital Systems, Embedded Networked Systems Design, Technology Management

De Anza College Cupertino, CA
Electrical Engineering *Sep'14 -June'16*

WORK EXPERIENCE

Micron Technology, Inc. Singapore
Product Engineer *Aug'21 – July'22*
- Automated engineering debug process by parsing and processing Logic Analyzer trace information to **SQLite** Database and perform first-level checks to narrow down problem using **Python**.
- Developed test program to conduct Electrical Failure Analysis of NAND products on **Magnum tester** using **Perl**.
- Executed characterization to validate product and collaborated with various engineering teams to resolve issue encountered.

Silicon Laboratories, Inc. Singapore
Product Test Engineer *July'19 – July'21*
- 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 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'18 – Sep'18*
- Verified and simulated carbon nanotubes memory device analog design using **Cadence Virtuoso**.

PROJECTS

Stock Brew share.streamlit.io/ghliew/stockbrew *Sep'21*
- 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 share.streamlit.io/ghliew/cryptowatch *Aug'21*
- 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'18 – June'18*
- 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'16 – Jun'17*
- 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, Basketball, Hiking
Languages: English, Chinese, Malay