

LI, KIN FUNG (CALVIN)

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WORK/RESEARCH EXPERIENCE

RFID-based Indoor Localization for UGV

Jun 2022 - Present

Student Researcher

- Developed an RFID-based indoor localization system for unmanned ground vehicles (UGV)
- Studied and implemented kinematics model and path planning algorithms

Flurry Finance

Jun 2021 - Feb 2022

Software Engineering Intern

- Implemented **optimization of DeFi lending portfolio**, up to **2x return** of naive algorithm
- Programmed smart contracts and scripts for yield farming, staking, tokens, trading, price oracle
- Integrated with popular DeFi projects (Aave, Uniswap, Chainlink, etc.)

EDUCATION

The Hong Kong University of Science and Technology (HKUST)

Sep 2019 - May 2024

Dual Degree Program: BEng(COMP & ELEC) & BBA(GBM)

- 3 majors in Computer Science, Electronic Engineering and Business, and 2 minors in Math and Robotics
- CGA: 3.94/4.3 (*top 3%*)
- Activities: Academic Secretary (DDPOC 2020-21), Student Ambassador (IPOSA 2020-21)

Eidgenössische Technische Hochschule (ETH) Zürich

Feb 2022 - Aug 2022

Semester Exchange: Computer Science

- Member of *The Alternative*, a student society for technology, e.g. Linux, bash, console

TECHNICAL SKILLS

Programming Languages

Java, Haskell, C, C++, Solidity, Python, JS, TS, MATLAB, etc.

Computer Science

OOP, Functional Programming, Algorithms, Formal Methods, ML, Smart Contract & DeFi, Database, Networking

Electronic Engineering

Signal Processing, Control Theory, Circuits, Embedded Systems

Finance

Markowitz Portfolio, Factor Models, EMH, Asset Valuation

EXTRA-CURRICULAR EXPERIENCE

Algo Crypto Trading Challenge 2022

Jul 2022 - Present

Team Leader, Finance Lead

- **Portfolio Optimization using LSTM Price Prediction, Economic Data and Sentiment Analysis**
- Reviewed academic literatures and crypto market reports
- Applied statistical methods in trade execution, capital and risk management

Robocon Subteam, HKUST Robotics Team

Dec 2019 - Jun 2021

Team Leader, Senior Hardware Engineer ← Junior Hardware Engineer

- **Multiple champions** and awards in Robocon (2021: archery, 2020: rugby)
- Managed robot R&D progress for 30+ mechanical, hardware and software engineers
- Circuit design, routing, electronic R&D (laser ADC, regulators and converters, etc.)

UBS Zürich HQ

Dec 2020 - Jan 2021

Student Analyst (Team Captain, AI Developer)

- Prototyped a ML-based **fintech startup prediction tool** with **70% accurate funding patterns**
- Data pipelining of *Crunchbase* dataset
- Models and methods: hypothesis testing, K-means, PCA, decision tree, regression