

# 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 Engineer*

- 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*

- Grade: (pending)/6.0
- 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

(full portfolio at GitHub: <https://github.com/StardustLID/StardustLID>)

## EXTRA-CURRICULAR EXPERIENCE

### Robocon Subteam, HKUST Robotics Team

Dec 2019 - Jun 2021

*Team Leader, Senior Hardware Engineer ← Junior Hardware Engineer*

- **Multiple champions** and awards in Robocon
- Managed robot R&D progress for 30+ mechanical, hardware and software engineers
- Prepared game plans for robotic archery (2021) and rugby (2020)
- 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