LI, KIN FUNG (CALVIN)

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WORK/RESEARCH EXPERIENCE

Event-Triggered Estimation and Control   Dec 2022 - Present
Research Group Member   *Supervised by Prof. Ling SHI@ECE, HKUST*

· Developed theoretical tools for event-triggered control and state estimation
· Research methodology: control theory, probability, signal processing, dynamic programming, etc.

Independent Study on Matrix Theory and Canonical Angles   Dec 2022 - Feb 2023
Research Assistant   *Supervised by Prof. Li QIU@ECE, HKUST*

· Authored the extensions to the textbook for "ELEC5600: Linear-System Theory" at HKUST
· Content: unitarily invariant norms, perturbation theory, canonical angles, Grassmann space and metrics

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: 3.95/4.3 *(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: 5.63/6.0
· Member of *The Alternative*, a student society for technology, e.g. Linux, bash, console

HIGHLIGHTED 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, Database, Networking
Electronic Engineering	Matrix Analysis, (Event-Triggered) Control Theory, Signal Processing
Finance	Portfolio Theory, Derivatives

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 (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, hypothesis testing, K-means, PCA, decision tree, regression