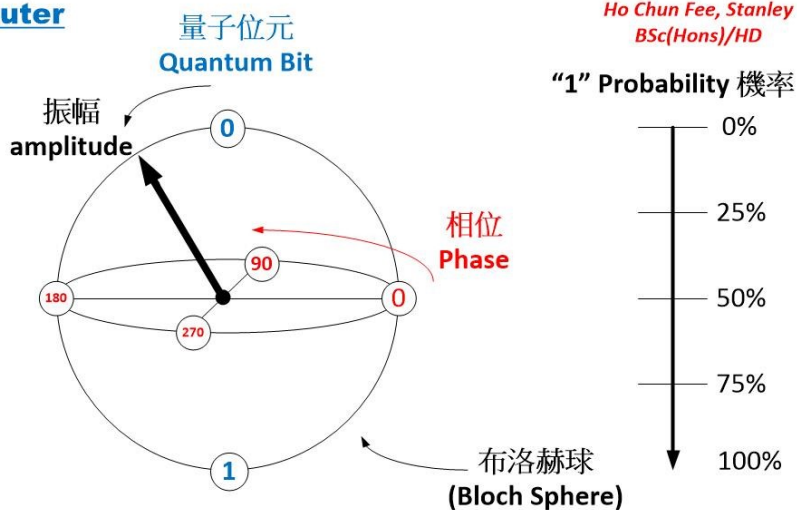


# QUANTUM COMPUTER

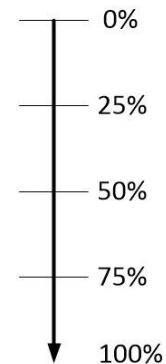
Ho Chun Fee, Stanley  
BSc(Hons) IEng MBCS MIET  
Informatics International, Hong Kong

## Quantum Computer

"0" Probability 機率



"1" Probability 機率



**Title: Quantum Bit the Superposition Status in Amplitude and Phase Representation**

*Oxford*  
Computer Studies

# Quantum Processor Unit, QPU

Quantum Processing Unit, for Quantum Bit

Pulse Serial Input

Read

Quantum Computing and the theory

**Oxford**  
Computer Studies

**Ho Chun Fee, Stanley – BSc/HD**

Informatics International,  
Hong Kong

Quantum Circuit

Convert

Pulse Serial Input

Ref: Cisco Quantum Flow Processor Block Diagram

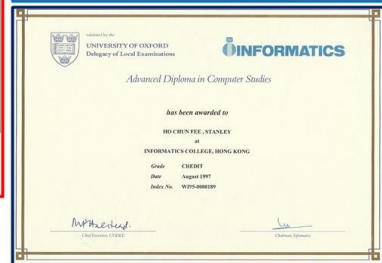
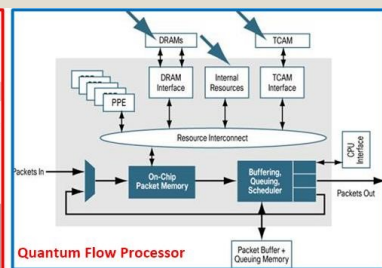
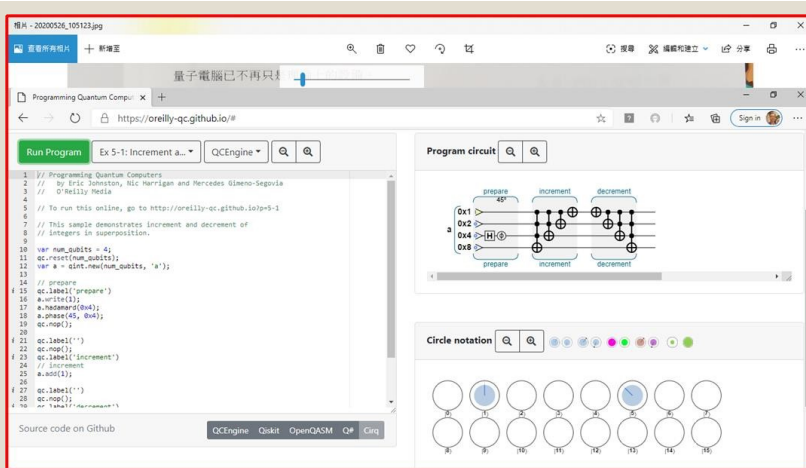
**Title: Cisco source-based Remote-Triggered Black Hole Filtering in QFP. Reproduced by Cisco.**

The QFP performs high-speed firewall and NAT syslogging directly off the forwarding plane, minimizing any degradation or load in the route processor.

QFP: Quantum Flow Processor.  
S/RTBH: Source-based Remote-Triggered Black Hole Filtering.  
BGP: Border Gateway Protocol.

System Design for Telecommunication Gateways - WILEY

# Quantum Flow Processor, QFP



**Title: Programming Quantum Computer**  
*Oxford* Computer Studies

**Ho Chun Fee, Stanley - BSc(Hons) | Eng MBCS MIET**

# Computer Programming

# Quantum Communication

中國量子通訊成果  
 量子科學實驗衛星  
 世界首條量子保密通訊幹線  
 [京滬幹線]



**Quantum Communication Satellite**

量子科學實驗衛星（簡稱量子衛星；英語：Quantum Experiments at Space Scale，簡稱QUESS），定名為墨子號，是世界首顆量子科學實驗衛星，質量為631公斤，設計壽命兩年。

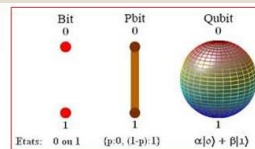
## Quantum Computer D-Wave Systems



### Quantum Computer

Using quantum bit for operation and logic calculation, storage and handling the quantum information's physical devices. It processes and calculates quantum information, execution the quantum algorithm (e.g. Shor algorithm and Grover algorithm), that is the Quantum Computer.

**Researched by: Ho Chun Fee, Stanley**



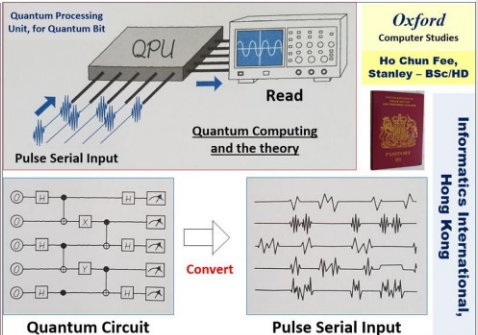
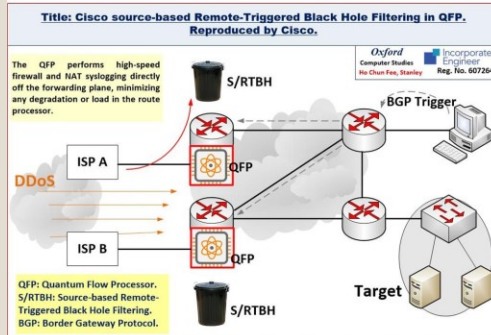
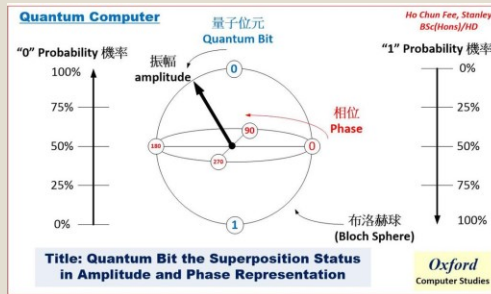
**Quantum Bit operation in 0 & 1.**

Quantum Computer Video  
<https://www.youtube.com/watch?v=u1XXjWr5frE>

**Title: Quantum Supremacy**

**Informatics International Hong Kong**  
*Oxford*  
 Computer Studies

# Summary



# Thank you and Bye! Bye!



- **Ho Chun Fee, Stanley**
- BSc(Hons) of Oxford Brookes University
- UK NCC International Higher Diploma
- Member of The British Computer Society no. 8380173
- Engineering Council (IEng Reg. No. 607264)
- Member of The Institution of Engineering and Technology