

思科創意解難挑戰賽(Cisco Innovation Challenge): STEM 與生涯規劃

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Cisco's Founding Place : Stanford University 1984

Two Cables and a
Desire to Connect



1986 · World's first Router



Change

Solve

Innovate

Our Vision

For 30 years, we've focused on helping to change the way the world works, lives, plays, and learns.

Our Strategy

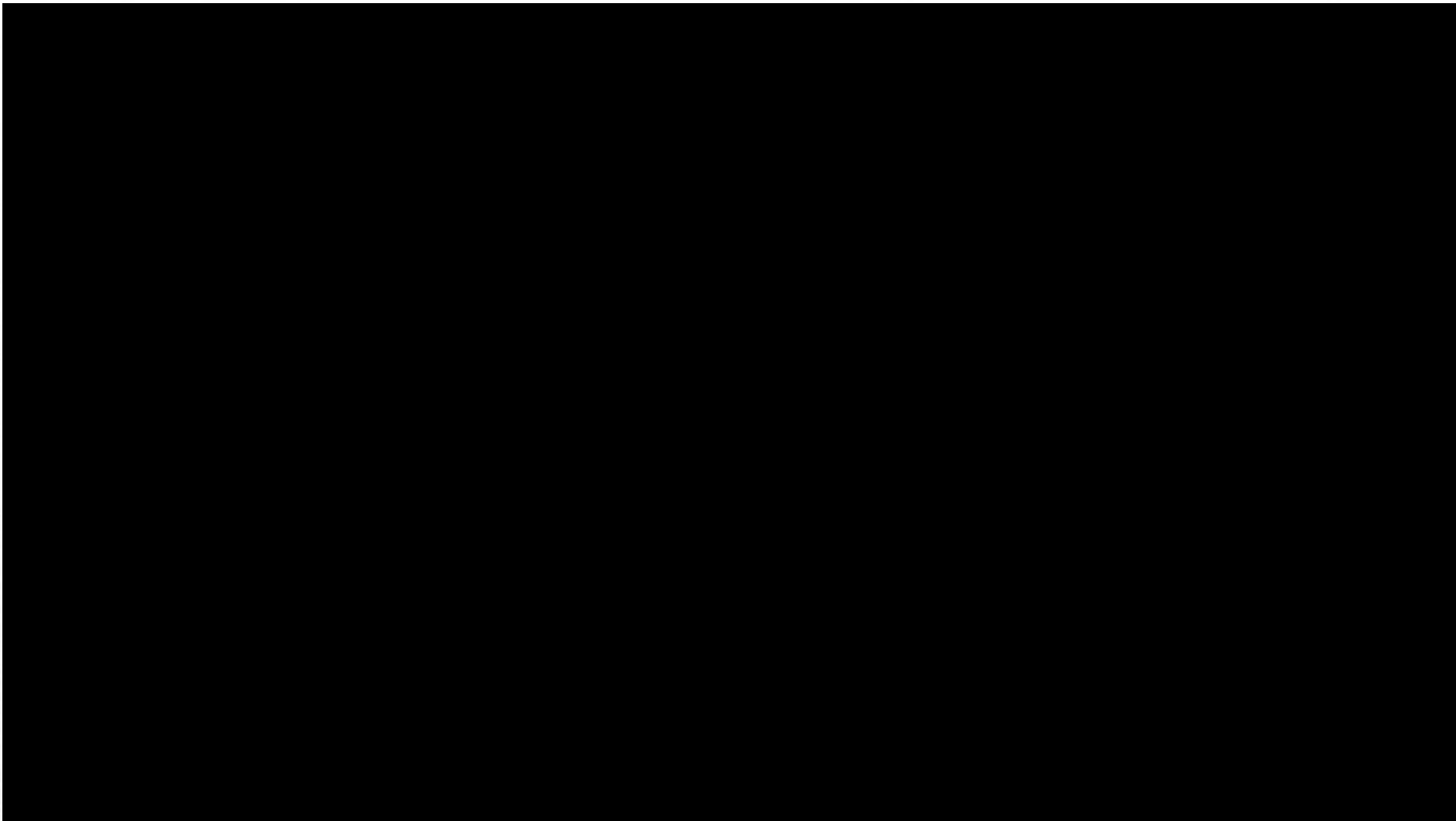
We solve our customers' most important business challenges by delivering intelligent networks and technology architectures built on integrated products, services, and software platforms.

思科网院项目

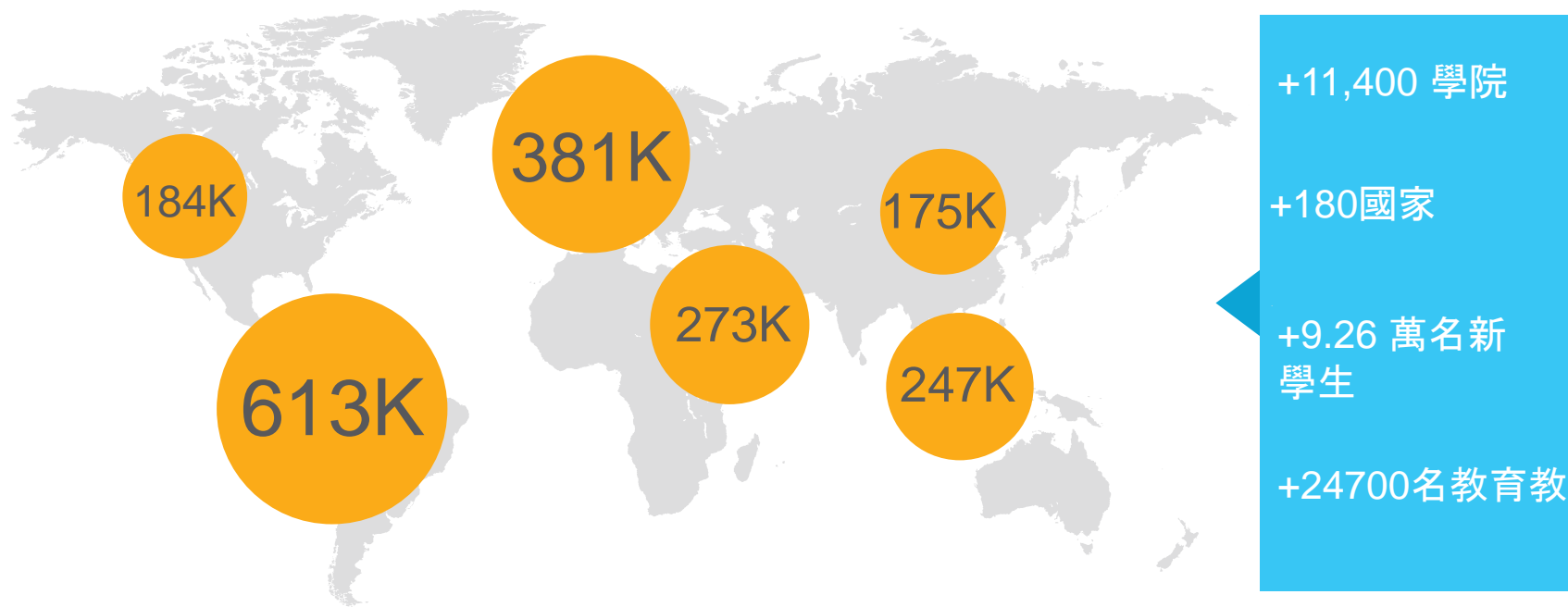
是一个全球的企业社会责任项目，是一项面向全球教育机构和个人的 IT 技能和职业发展项目。

Cisco Networking Academy,

a Cisco Corporate Social Responsibility program, is an IT skills and career building program available to learning institutions and individuals (13 years old or above) worldwide.



Cisco: The Worldwide Leader in IT




思科網絡學院 (Cisco Networking Academy) 每年培養187萬名學生
自 1997年起, 為世界培養IT 數字化人才

The Networking Academy Learning Portfolio

Current & Planned

 Aligns to Certification

 Instructor Training required

 Self-paced

* Available within 12 months

Collaborate for Impact

 **Introduction to Packet Tracer**

Packet Tracer

Hackathons

Prototyping Lab

Internships

Exploratory

Foundational

Career-Ready

 **Networking**

 **Security**

 **IoT & Analytics**

 **OS & IT**

 **Programming**

 **Business**

 **Digital Literacy**




 **Introduction to Cybersecurity**

 **Introduction to IoT**

 **NDG Linux Unhatched**

 **Be Your Own Boss**




 **Get Connected**

 **Networking Essentials**
 **Mobility Fundamentals**
 **Emerging Tech Workshop: Network Programmability Using Cisco APIC-EM**





 **Cybersecurity Essentials**

IoT Fundamentals:
 Connecting Things, Big Data & Analytics, IoT Security*
 Hackathon Playbook

  **NDG Linux Essentials**
  **IT Essentials**

 **CLA: Programming Essentials in C**
 **CPA: Programming Essentials in C++**
 **PCAP: Programming Essentials in Python**
 **Emerging Tech Workshop: Experimenting with REST APIs using WebEx Teams**

 **Entrepreneurship**

  **CCNA R&S: Introduction to Networks, R&S Essentials, Scaling Networks, Connecting Networks**
  **CCNP R&S: Switch, Route, TShoot**

  **CCNA Security**
  **CCNA Cybersecurity Operations**

 **NDG Linux I**
 **NDG Linux II**

 **CLP: Advanced Programming in C**
 **CPP: Advanced Programming in C++**



香港輔導教師協會
Hong Kong Association of
Careers Masters And Guidance Masters



香港中文中學聯會
The Association of Hong Kong Chinese Middle Schools



香港電腦教育學會
The Hong Kong Association
for Computer Education



合作夥伴:





思科創意解難挑戰賽 (CIC):

為期一年的香港中學生物聯網(IOT) 技能比賽，
透過「以賽促學」、「以賽促教」、「以賽促用」，
目的是促進香港中學生的STEM教育。

把握前所未有的大好良機，
創意解難、改變世界！

物聯網技術有望緩解全球一些最嚴重的問題。
到2020年，將有500億個物體與互聯網聯結，從而在物聯網
領域創造出150萬個就業崗位。

宗旨：
幫助中學生學習和利用科技知識，解決現實問題，
成為IT 解難專家 (Global Problem Solver)



充當社會變革促進者

ACT LIKE A
SOCIAL CHANGE AGENT



像企業家一樣思考

THINK LIKE AN
ENTREPRENEUR



像技術專家一樣創新

INNOVATE LIKE A
TECHNOLOGIST

思科創意解難挑戰賽 (CIC)

讓科技造福社會



挑戰:

選取以下其中一項主題，並就一項具體問題設計創新的解決方案：

- IoT優化城市: 能源·用水·交通及廢物回收
- 適合長者及有特殊需要人士安居的家園
- 提供市民優質醫療服務



參賽資格

參賽者必須為年齡介乎13-16歲(在2002-2005年出生) 香港中學生



形式

組隊: 由3至4位同學及1位指導老師組成1組

第一階段: 2頁概念說明書及3分鐘的YouTube視頻

第二階段: 配合硬件製作物聯網設備作介紹, 並回答評審團問題



獎項

- 參與證書、獎盃、獎狀、獎金/書券/ 電子產品現金券
- 學校積極參與獎及卓越教師獎
- 師友計劃(第二階段入圍同學)
- 獲邀前往思科 (廣州) 智慧城产业发展中心遊學
- 獲安排於思科或其他公司作實習生的機會

CIC 主要元素

- 啟動禮 (Kick off & Information Sessions)
- 校長/副校長物聯網體驗工作坊(3小時)
- 教師培訓計劃 (9小時)
- 業界資訊日 (專家於放學時段與同學WEBEX)
- 學生學習思科網院課程
- 第一階段、第二階段、總決賽,共三個階段
- ★ 師友計劃 (Mentorship Program)
- ★ 廣州參觀智能城市Ishowroom, 參觀公司
- ★ 公司5-Day 工作體驗 (Work Experience)



與生涯規劃相關的詳情

5-Day Work Experience 工作體驗

- **Objectives for students:**
 - Gain an understanding of what IT company does, and the variety and scope of roles within the company.
 - Consider how careers develop and how this relates to their futures.
 - Discover their strengths and potential



Key elements:

- Write CV & go through Interviews (2 out of 10 students)
- Welcome lunch
- Shadowing/observing
- Hands-on tasks
- Interview 3 senior leaders
- Do presentation in English on learnings
- Completion certificates, gifts, 1500 HKD stipend



Time Table of 5-Day Work Experience

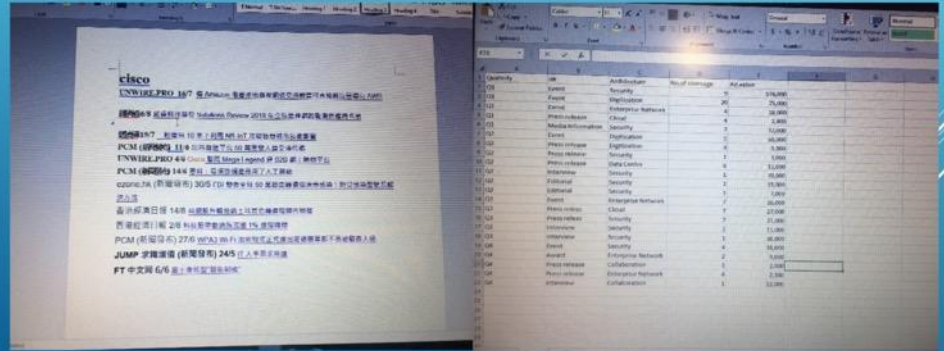
- Incorporate Business in the Community' Work Inspiration tools & models
- Experience 4-5 departments with local and foreigner supervisors
- Interviewed 3 senior management leaders



	Day 1 (13/8)	Day 2 (14/8)	Day 3 (15/8)	Day 4 (16/8)	Day 5 (17/8)
09:00 - 10:00	Check in at reception, meet supervisor Amanda Lee, CSR Manager, Corporate Affairs. Meeting Bruce Yim, CCIE Portor on 29/F.	Check in at reception, meet supervisor Polly Yu, PR Manager, Communications on 31/F, Marina.	Check in at reception, meet supervisor Becky Wong, Virtual Sales Account Manager, Commercial Sales HK , on 31/F, Stanley.	Check in at reception, meet supervisor Cholo Carino, Consultant Engineer, Advanced Services on 31/F, Victoria.	Check in at reception, meet supervisor Pablo Noja, CSA, GSP on 31/F, Harbour.
10:00 - 11:00	Shadowing - preparation meeting - debrief meeting on key learnings	Shadowing - preparation meeting - debrief meeting on key learnings	Shadowing - preparation meeting - debrief meeting on key learnings	Shadowing - preparation meeting - debrief meeting on key learnings	Shadowing - preparation meeting - debrief meeting on key learnings
11:00 - 12:00					
12:00 - 13:00	Welcome Lunch @ ___	Lunch / with supervisor	Lunch /with supervisor	Lunch / with supervisor	Lunch / with supervisor
13:00 - 14:00	- 4 supervisors name cards & self intro. -Students: self-intro. & work experience objectives.	Work Experience	Work Experience	Work Experience	Work Experience & Debrief
14:00 - 15:00	Brief of the week / Debrief of the day				
15:00 - 16:00					
16:00 - 17:00	Careers Happen Meeting with Barbara Chui, VP @ Harbour, 31/F (3:30-4:30pm)	Work Experience	Careers Happen Meeting with Tony Wong, Director of WPR @ Butterfly Bay, 28/F (4-5pm)	Work Experience	30min preparation time for the presentation
17:00 - 17:30	Careers Happen Meeting with Garrick Ng, Chief Technology Officer @ Harbour, 31/F (4:30-5:30pm) -Check out from reception				-Debrief Session by Supervisor (Debrief Form) -Check out from reception

學生的得著

I have two work is use excel and work to complete. It is about PR job so I feel PR that job is very difficult for me .



DAY FIVE PHOTOS



Today in harbor
doing(view so good)



Today use Packet
Tracer to working(It
is so funny!)



Visit Telstra to know many
things

學生的得著

- 「一開始麥sir通知我寫CV，但我連CV係咩都唔知。透過問阿sir我先知道CV原來係履歷表。透過上網搜查CV既sample，同埋問老師既意見，我終於寫好份完整既CV。
- 去到要面試當日，我唔知道原來工作面試係要早15分鐘到達，所以當日我遲左，但都好多謝Cisco既職員體諒我。
- 面試以英文進行，而英文亦係我既弱點，我盡左自己最大努力去以英文表達，好多謝面試人員接納。
- 而面試期間面試人員問我知唔知Cisco公司既背景，我先好尷尬咁發現原來面試前係要預先準備公司既背景資料，
- 總括而言，面試比我體驗到求職過程要準備及注意既野，對一個中二的學生可以去黎講，十分難得。我地能夠在10個優勝者當中得到呢個機會，真係好感恩。」



學生的得著

- 「其實我早已經知道Cisco 是一間可以Home office 的公司，即係員工可以在屋企使用視障會議，進行匯報和工作，但係一去到Cisco 我先確切了解，這是比我想象中更少人，只有十幾人返到公司做野，令到工作環境好冷清。
- 在實習其間我地頌在Telstra 參觀，除左參觀左公司設施外，頌理解Telstra係香港的業務，亦都了解Telstra 的歷史，知到Telstra 和Cisco 是合作夥伴的關係，
- 而且我係實習途中，學到一些面對壓力和解決壓力的方法，更聽到一些名人即係Cisco 的高層人士，分享左佢地點樣尋找目標，例如跟著自己心中所想，還有可以選一些對自己有興趣和有能力的目標，我覺得呢啲對我中三選科和將來選甚麼工作有用外，更可以成為我人生的左右銘，讓我一生受用，而且這些是在學校學吾到，所以真係好多謝Cisco 比左一個敢充實的暑假比我地。」



Visit Ishowroom in Guangzhou, Company Visits 參觀廣州智能城市Ishowroom, 參觀公司

- Full day visit to Guangzhou for the top 3 winning teams
- Visit Cisco office and demo center of Smart City in Panyu
- Learnt IOT technology and it's implication to work in IT sector
- In-person experience & face to face meeting with cisco colleagues on career paths stories and advise



賽後交流團

- 冠亞季三隊得獎者到廣洲CISCO公司參觀
- 認識智能城市發展
- 遊覽廣洲週邊景點

學生的得著

「我哋喺廣州cisco公司參觀佢哋嘅智慧城市展覽廳，呢個展覽廳好少對外開放，所以我哋可以睇到嘅時候就覺得好榮幸。**裏面可以睇到未來無人車嘅技術、未來嘅醫院、仲有未來嘅物流，設計認真、嶄新，真係令我哋大開眼界。**喺午膳既時間，我地三隊又分享大家將來想做既職業，過左一個好輕鬆既下午。臨走前我地仲去左廣洲塔附近影相留念，真係好多謝cisco讓我地過左咁豐富既一日。」

學生的得著

由於我地拿到思科比賽的亞軍及季軍，所以我地七月份參觀可以獲邀參觀中國廣州番禺的Cisco分公司。當日我地首先在早上去左Cisco公司，參觀了他們的會議房，體驗到TP系統，即係用于視障會議，跟著當日我地將分為兩組，在兩間不同的房，透過TP系統來溝通，真係一個吾錯的體驗而且，我地傾聽左Cisco內地工程師的分享，除左簡介左Cisco的歷史，同埋分享左軟件工程師有啲咩工作要做，例如接駁網線、向客戶提供網絡解決方案等，當中讓我更了解工程師的行業

Mentoring Program 師友計劃

- 1-2 mentors (1 technical & 1 non-technical) vs 2-4 students of a team
- 2 months long (at least 12 hours) starting from Phase 2
- For shortlisted 30 (up to 50) teams
- Meet virtually and in-person
- Mentors advise mentees on technical, speaking skills (提問, 改良方案, 改善匯報技巧) & IT career development
- Outcome: 700 hours devoted by 50 mentor volunteers in 2018 (Cisco & Telstra)



學生的得著

「友師除著跟我們視象會議和親身到學校跟我地探討問題，友師仲發現左我地不善於溝通及表達概念，所以佢地好用心教我地講野的技巧，**以至於我地可以在日後決賽時有自信地向評判介紹我地既作品。**」

「而當我地遇到技術性問題嘅時候，友師都會盡心盡力提供寶貴的意見。在決賽嘅時候佢地仲帶埋佢地既家人來支持我地，令我地十分感動。真係好感謝友師們既無條件付出。」

For volunteers/mentors:

- Mentoring program helps volunteers:
 - Take this opportunity to participate the Time2Give initiative at Cisco / volunteering activities to give back
 - Make a long term impact on a young person's life
 - Become a better manager, friend, partner or parents by further developing your empathy and communication skills

Cisco Innovation Challenge (CIC) 2018/2019

Mentorship Experiences Sharing

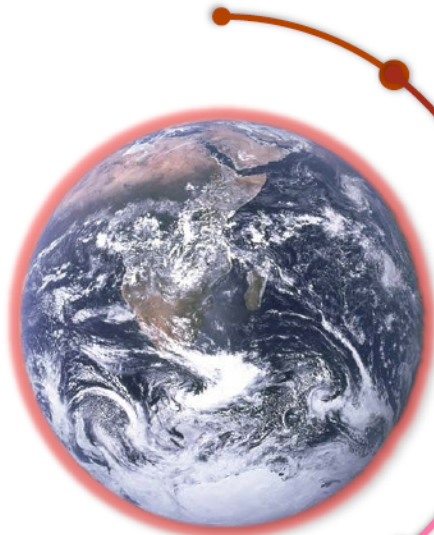
Telstra Foundation

11 October 2018

Gordon Ng
Global Bid Manager
Telstra Enterprise



Create a Better World with Mentorship Support to the Youth



Learnings

Help them learn things out of the school books



Career Preparation

Let them familiar with the career preparation



Inspiring

Be their life buddies and inspiring them



Be Success

Build up their confident to achieve success



Dream Pursuing

Give courage and guidance for their dream



TELSTRA
FOUNDATION



Mentorship - The Story Begins



-  Over 45 mentors
-  Over 700 mentoring hours
-  Over 90 Mentees



Mentorship Programme Highlights



Mentorship Support

For the shortlisted winning teams



Mentorship Period

Feb – April 2018



Mentorship Hours

Around 12 hours



Mentors Combination

Consists of both technical and commercial background professionals



TELSTRA
FOUNDATION



Courage to the Mentees for their Success



總結:

宗旨:幫助中學生學習和利用科技知識, 解決現實問題,
成為IT 解難專家 (Global Problem Solver)



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- Sign up now!

<https://goo.gl/forms/d8jJZLe5kIKf6My82>



- More about CIC:

Website: Cicgps.hk



Q & A