GARMIN 林哲民經理：
你可能沒想過的資工路

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於 2021 年九月下旬，本院資訊工程系系學會特別邀請到資工系友林哲民學長返校分享。具備資訊工程系 95 級、網路工程所 99 級系友及大學長的雙重身份，目前任職於 GARMIN 亞洲研發中心，擔任產品企劃部經理一職的林哲民學長，不單回來與大家分享他的大學生活，同時以「你可能沒想過的資工路」為題，帶出自身探索職場的心路歷程。希望透過此次經驗分享，傳達「多元資工路」的核心理念。

「多管閒事」無形中的經驗累積

自交大網工所畢業後，林哲民學長以一個軟體工程師的身份加入 GARMIN 這間公司，最初公司規模其實沒有現今這麼大，林哲民學長是公司地端團隊中的第十號工程師。在公司接手的第一個 3D 實景圖的案子時，此專案需依賴了公司內外多團隊之間的協作來完成，但各單位角色與職責的不同，有時會不可避免的產生一些責任或溝通的間隙，而造成無人負責或是較晚發現問題的狀況。然而，在團隊運作過程中，林哲民學卻做了很多身為一個軟體工程師工作分外的事情，也就是他所笑稱的「多管閒事」。包括因工作指派溝通上出現的認知差異，所產生的缺漏事項；或是對於整體協作效率提升的追求與協調，林哲民學長總是避免以「自掃門前雪」心態應對，以團隊考量為第一優先，在能力許可前提下自願挺身給予助力。

「其實那時候我還蠻多機會去接觸到團隊裡面不同人在做的不同事情，就是所謂的多管閒事，相關的一些經驗讓我有機會走到下一步，我人生中的下一步。」林哲民學長鼓勵與會的各位能挑戰「去展現你不一樣的能力跟做到一些不一樣的事情」，作為自我經驗的昇華與實力的累積。

公司轉型 人也要轉型

談及第一次在公司提案的經驗，當時團隊所進行的相關項目，由於公司發展重心的轉移，而面臨團隊轉型需求，林哲民學長考量到團隊未來的出路與發展，希望能讓團隊有機會能接觸未來較有發展的產品，能夠扮演更重要的角色。運用對於客戶痛點的精準洞察，同時利用到美國出差的機會，林哲民學長向運動攝影機所相關的事業群負責人提案，希望能合作解決「影片整理程序繁雜」的問題，同時主打「自動辨識亮點片段產出影片」特色，滿足市場需求。儘管就結果來說，運動攝影機品項沒有一躍成為公司發展重心，但林哲民學長與團隊於專案執行過程中所培養的默契與經驗，對於後續智慧手錶提案有著顯著的正面助益。

有關系列專案中團隊成員的工作分配，林哲民學長分享了幾個對於「爽缺」與「苦工」兩對立性質職責的觀察心得。「不要覺得苦工就是不好的事情，其實苦工讓你有機會磨煉出不一樣的一些能力跟經驗。」林哲民學長發現，許多後續成為公司骨幹的員工，便是透過承擔常人認知的「苦工」，在過程中磨煉團隊溝通、協作的能力，在相對高壓的環境中刺激自己成長，解放潛能，方能在關鍵時刻挺身而出，展露自己的才能並獲得賞識，承擔關鍵要角，協助公司營運。

不務正業的資工人生

林哲民學長於分享專案經理的工作內容時，再次強調「溝通能力」的重要性。「溝通最重要的就是達成目的，溝通只是你的手段。你需要很清楚知道你溝通的對象他在意什麼？他想要什麼？不想要什麼？怎樣子容易説動他？才能夠達到你的目的。」同時，為了確保專案從開始到順利結束，一個好的管理者必須做好資源掌控，知悉風險並加以管理，以及妥善規劃時程。或許這與原先「軟體工程師」所具備的資訊工程專長存在一定跨度，但在職場上，具備多元經驗與專長，同時善於溝通協作的管理者，才是高價值、具備不可替代性的人才。

「跨域人才」趨勢 多元選修增廣見聞

於分享會最後，林哲民學長給予與會的學弟妹們幾點修課建議，包括「語言跟通識課程」以及「外系課程」的重要性，修習日文、外文系的法文，自學粵語，不單協助自己增廣視野，同時在與日本東京地鐵「西瓜卡」的合作專案中發揮重要溝通功能，有效降低語言轉譯成本，使整體合作更具效率。「不管是課內或課外，系內或系外的一些機會，可能都會不知不覺的變成你人生後面工作中的一些幫助，變成你的養分。」若能知道自己有興趣的事物為何，放膽去追求，深入並廣泛地學習，便是成就自我，實現目標，化平凡為不凡的關鍵。

GARMIN's Manager, Cu Lin: Career Paths in Computer Science You Never Thought about

Invited by the Computer Science Student Association, Cu Lin gave a talk in September 2021. Graduated from the Department of Computer Science with bachelor's (class year, 95) and master's degrees (class year, 99), Cu Lin is now a manager at the Product Management Department at Garmin Asia R & D Center. With the topic "career paths in Computer Science", he came back and shared his college life and experiences in the industry to encourage students to try different career development with the Computer Science degrees.

Accumulating experiences by minding other people's businesses

Cu Lin joined Garmin and worked as a software engineer after graduating from the Institute of Network Engineering. The size of the team was small, and he was the 10th engineer. To conduct the 3D real scene interchange picture case, many teams needed to collaborate with each other. However, some confusion may be caused by different duties or miscommunication among different departments. This could cause some issues later on. While working in the team, Cu Lin did more than his duty required. For instance, he not only does the development work but also coordinates between teams to improve the work efficiency to achieve the goal. In his opinion, a team should be the first priority in a company rather than individual work. With this kind of mindset, he thought everyone should devote themselves to work and provide help to each other with their abilities. "Actually I was able to interact with a lot of people in between different teams which I was able to gain some experiences for my career path and my life. Cu Lin encouraged every student to try different things with their own abilities to accumulate necessary skills in the workplace.

When company transform, we also need to transform

When he talked about his first proposal experience in the company, due to the shift of the company's development focus and the need for transformation, his team was also at this dynamic phase. Cu Lin considered the future prospects and development of his team and hoped that they could have access to products with more development in the future and be able to play an important role. On a business trip to the U.S., Cu Lin proposed to the head of Outdoor Segment which owns action camera business, hoping to use his insight to solve customer's problems such as the complex procedure of video post-editing. Also, at the same time, he would like to provide the feature of "automatic video creation by recognizing highlight clips" to the market. Although the action camera business did not become the focus of the company, good teamwork and experiences cultivated by Cu Lin and his team during the execution of the project had a significant impact on the smartwatch proposal, which was the follow-up project. Regarding the distribution of work among team members working on a series of projects, Cu. Lin shared several observations on "easy work" and "hard work". "Don't think that hard work is a bad thing; in fact, hard work gives you the opportunity to sharpen your skills and experiences in different ways. Cu Lin found that many of the employees eventually became the key person in the company because they were able to take on hard work. They enhanced abilities such as communication and collaboration skills, and strategies to cope with stress. Thus, they could step forward at critical moments to take on crucial roles in the company.

Not a regular CS student

In sharing the job description of a project manager, Cu. Lin once again emphasized the importance of communication skills. "The most important thing in communication is to achieve the goal because communication is only a means to an end. You need to know exactly what the person you are communicating cares about. What does the person want? What doesn't not? How to convince the person? Only then can you achieve your goal." To monitor a project from start to the end, a good project manager must have good control of resources, know the risks and manage them, and plan the timeline properly. There may be a gap between this and the expertise of the software engineer, but in the workplace, a manager with diverse experience and expertise, as well as good communication and collaboration, is viewed as important, irreplaceable talent.

The trend of "interdisciplinary talents" and diversified elective courses to broaden your horizons

At the end of the sharing session, Cu Lin gave several suggestions to the students, including the importance of "language and general studies courses" and "courses from other departments". For example, he took Japanese lectures from Language Center and French courses from Foreign Language Department and learnt Cantonese on his own. It not only helped him to broaden his horizon, but also played an important role in the cooperation project with the Tokyo Metro "Suica Card". He was able to reduce the cost of language translation and made the overall cooperation more efficient without language barriers. "The opportunities, whether in or out of the classroom, may become some help and nourishment for your later life at the workplace." If you know what you are interested in, please go for it and learn about it profoundly. This is the key to achieving your goal.