

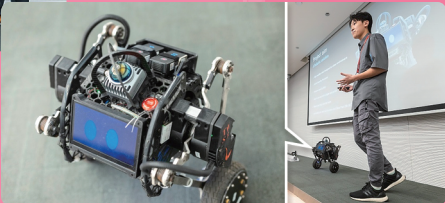
We have bright students...become **ONE** of us!



CPEG Team Won Gold Award of ASMPT Technology Award 2024

The CPEG team comprised of HUANG Haolun, JIANG Yicheng, and Jason LAM Ka-Ming won the Gold Award of ASMPT Technology Award 2024 with their final year project titled "Two-Wheeled Security Robot". They designed and developed a two-wheeled robot with dynamic control, navigation, obstacle avoidance, and interactive capabilities.

The robot aims to overcome the limitations of traditional security measures and assist human guards in their tasks.



CPEG Team Won Silver Award at HKICT Awards 2024

CPEG student team led by Prof. Kenneth LEUNG won the Silver Award in Student Innovation (Higher Education) with their AI-Driven Real-Time Sign Language Translate App called HandsTalk. The team comprised of Class of 2024 graduates LEE Cheuk-Sum, Marcus SO Ho-Mang and WONG Ho-Leong.

HandsTalk is an AI-powered real-time sign language translation mobile communication app that seamlessly translates sign language into English using advanced AI models, computer vision technology and generative AI. Users can use it in real-time scenarios, video conversations, and more.

HKUST Robotics Team Thrived at Asian Intelligent Robot Contest 2025 in Taiwan

In June 2025, the HKUST Robotics Team, including 5 CPEG students, made its first participation in the 36th Asian Intelligent Robot Contest (AERC) in Taiwan, represented by its Intelligent Racing (IR) and Unmanned Aerial Vehicle (UAV) sub-teams. Established in 1989, AERC is a premier platform for robotics, attracting students from primary school to university level across Asia. The two sub-teams earned a total of 14 awards including 1st Place in Forklift, 2nd Place in Sumo and 6th Place in manual racing.



Our Single Stop **ENQUIRY**

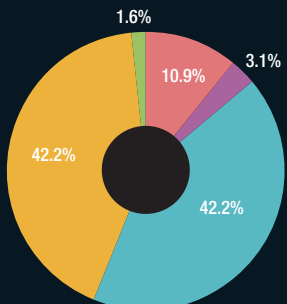
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HKUST COMPUTER ENGINEERING PROGRAM

<http://cpeg.hkust.edu.hk>

CAREER Prospect

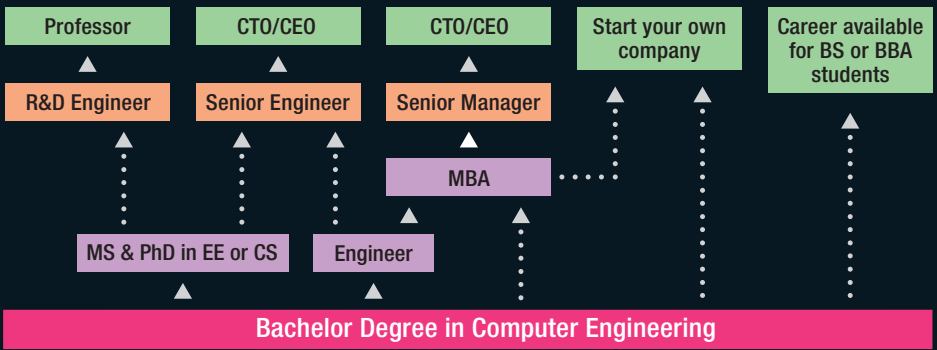
Employers of our previous graduates include: BOC, CTI, DHL, EPSON, HK Bank, Hutchison Telecom, Motorola, Goldman Sachs, PCCW, Cathay Pacific Airways, Merrill Lynch, etc.



Facts and figures 2024

Government	10.9%
Education	3.1%
Engineering & Industries	42.2%
Commerce & Business	42.2%
Community & Social Services	1.6%

Career in Computer Engineering



ADMISSION Requirements

From 2025 intake onwards, the School of Engineering adopts the Dual Track Admissions Framework:

- (1) Department-based Admission (JUPAS code: JS5212)**
Students who already have confirmed passion for computer engineering may consider applying for direct admission through department-based admission.
- (2) School-based Admission (JUPAS code: JS5282)**
For students who would like to explore different engineering disciplines before deciding on a major. Limited quota for major selection of CPEG. Please visit HKUST School of Engineering (seng.hkust.edu.hk) and HKUST Undergraduate Admission (join.hkust.edu.hk) for more information.

Entrance requirement: (1) 4 cores + 2X OR (2) 4 cores with M1 / M2 + 1X					
Subjects and level					
English Language	Chinese Language	Mathematics (Compulsory Module)	Citizenship & Social Development	Elective 1	Elective 2 OR M1 / M2
3	3	3	Attained	3	3
One of: Biology / Chemistry / Physics / Information and Communication Technology					

Note:
X: Elective subjects
M1: Mathematics Extended Module 1 (Calculus & Statistics)
M2: Mathematics Extended Module 2 (Algebra & Calculus)



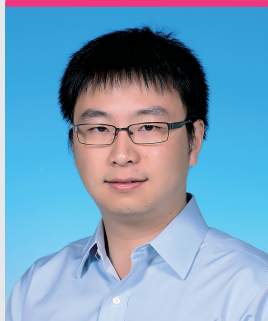
A MESSAGE

From The Directors

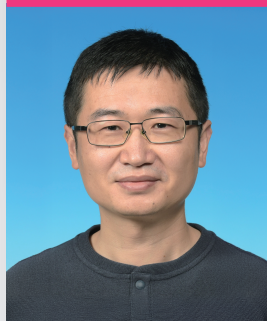
Welcome to Computer Engineering

CPEG! CPEG is at the heart of the information age. It is a challenging program for the brave hearts and the high-achievers. With a unique research emphasis and well-equipped laboratories, our forward-looking curriculum teaches you the state-of-the-art technologies. Our objective is to provide students with a broad and well-integrated background of computer systems involving a balanced training spanning hardware, software and management. Industry-sponsored projects and internship programs give our students direct exposure to real-world issues, thus ensuring good job prospects for our graduates. We understand that young minds need the highest degree of flexibility as they explore their strengths and interests, and most importantly, we inspire, challenge and guide our students to aim high and excel through frequent faculty-student interaction. All of these explains why CPEG graduates have always found great jobs, and employers keep coming back to us. Find out by yourself. You will enjoy this challenge.

Prof. Wei WANG

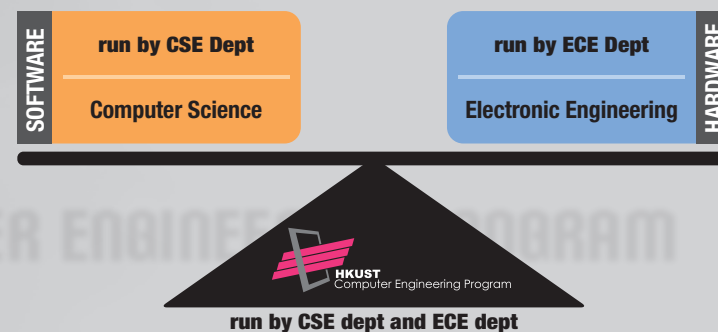


Prof. Jun ZHANG



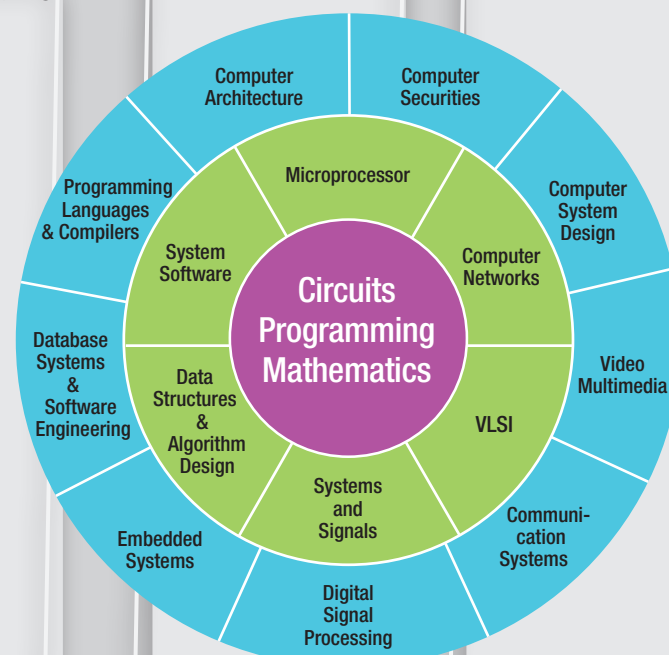
What is Computer Engineering CPEG?

- ▶ CPEG focuses on the design, implementation and application of computer systems.
- ▶ CPEG is jointly run by the Department of Electronic and Computer Engineering (ECE), and the Department of Computer Science and Engineering (CSE).
- ▶ It bridges the gap between computer science and electronic engineering and is the link between software and hardware.



Program FEATURES

- ▶ State-of-the-art and flexible curriculum.
- ▶ Balanced mixture of hardware and software courses.
- ▶ Best of both worlds – takes full advantage of the faculty, teaching staff, hardware and software facilities of both ECE and CSE departments. It's indeed a well-integrated 2 in 1 program!



CPEG ACADEMIC PROGRAM

Various Areas of Specialization

System Fundamentals

Computer organization, operating systems, networking, processor design, embedded systems

Software Fundamentals

Programming, algorithms, software design

Hardware Fundamentals

Electronics, circuits, μ P applications, VLSI

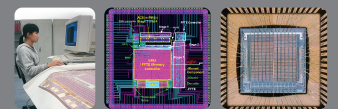
Engineering Fundamentals

Mathematics, physics, basic programming & basic electronics

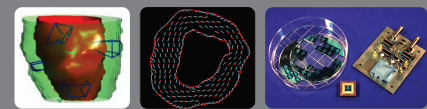
University Common Core

Humanities, social analysis, science & technology, arts, mindset & wellness, communication skills, etc.

Semiconductors / VLSI



Signal Processing



A. I. / Theory



Communications & Systems / Networking



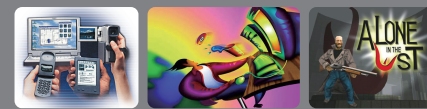
Software / Database



Embedded Systems / Robotics



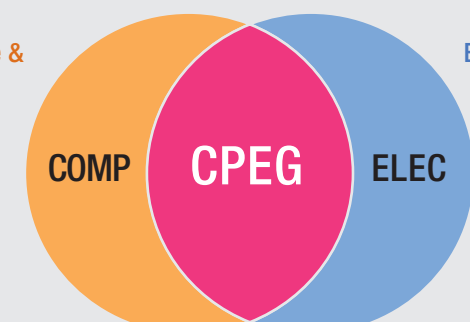
Graphics / Multimedia



What is the difference between CPEG and Computer Science and Engineering (CSE), and Electronic and Computer Engineering (ECE)?

- ▶ CSE focuses mainly on software related topics.
- ▶ ECE focuses mainly on hardware related topics.
- ▶ CPEG aims at providing its students with a well-integrated and balanced software and hardware knowledge.
- ▶ Emphasis in CPEG is placed on deep understanding of both hardware and software and their cross-interaction in order to design cutting-edge and advanced electronic and computer systems.

Department of
Computer Science &
Engineering
(CSE)



Department of
Electronic & Computer
Engineering
(ECE)