

# SCHOOL OF ENGINEERING



## EMBRACE INNOVATION

Just think about it – who gave us electricity, cars, planes, computers, mobile phones and the Internet? These inventions have dramatically changed the way we live and work, and the brains behind them are none other than engineers, the architects of the future!

Engineers are so central to the progress of society that they are always in great demand. Come join our School of Engineering (SEG), and you too can look forward to exciting careers and further study opportunities. At SEG, you will receive a well-balanced engineering education, and benefit from our excellent industry partnerships.

### Why Engineering?

- Engineering empowers you to translate the knowledge of science and technology into ideas for new products to make the world better, faster or smarter.
- Engineering professionals enjoy attractive starting salaries and diverse career choices, ranging from management to R&D.
- With our engineering diplomas well-recognised by reputable local and overseas universities, you can build a firm foundation in engineering that will open doors for you to exciting career possibilities and further studies.

### Why SEG?

- Our graduates excel wherever they go; some are forging careers with MNCs, with high starting salaries, while others start their own businesses.
- Many of our graduates further their studies in reputed local and overseas universities; many are scholars of major corporations and government agencies.
- Our innovation-based curriculum, state-of-the-art facilities and excellent industry exposure provide an enriching learning experience for you to achieve a well-balanced and highly relevant engineering education.
- Our strong industry links ensure that our courses are relevant to the needs of industry.
- We are a leader in science and engineering R&D, with many innovations that contribute to the engineering field. You will benefit from this exciting intellectual environment.
- Every year, our students excel in local and international competitions, like the Microsoft Imagine Cup, Singapore Android Developer Challenge, Code:XtremeApps, Tan Kah Kee Young Inventors' Award, Singapore Robotic Games, WorldSkills Competition and the FIRA RoboWorld Cup.

### Industry-linked

Our strong industry ties will enable you to learn in a holistic environment, using the latest technologies and up-to-date curriculum. We are proud of our strong and intensive partnerships with leading technology companies, including Microsoft, Siemens, DSO National Laboratories, Festo Pte Ltd and Hewlett-Packard. We are also the only institution to host various centres supporting enterprises in Singapore, including:

- The Centre of Innovation for Electronics with SPRING Singapore
- The MedTech Concept@NYP, a biomedical hub for collaboration among biomedical companies
- Industry Communities@NYP, comprising the IC Community, Wireless Community, Embedded Systems Community and Security Technology Community, supported by EDB
- The Centre for Digital & Precision Engineering, jointly funded by EDB

### Minimum Entry Requirements

- |   |             |
|---|-------------|
| a) English Language                     | Grade 1 - 7 |
| b) Elementary or Additional Mathematics | Grade 1 - 6 |
| c) A relevant Science subject           | Grade 1 - 6 |

### Enquiry Hotlines

Please contact us at **6550 0509/0511/0512** for enquiries on the following diplomas:

- Aeronautical & Aerospace Technology
- Biomedical Engineering
- Digital & Precision Engineering
- Manufacturing Engineering
- Mechatronics Engineering
- Nanotechnology & Materials Science

Please call **6550 0836/0400** for enquiries on the following diplomas:

- Aerospace Systems & Management
- Electrical Engineering with Eco-Design
- Electronics, Computer & Communications Engineering
- Multimedia & Infocomm Technology
- Telematics & Media Technology

You can also visit [www.nyp.edu.sg/seg](http://www.nyp.edu.sg/seg) for more information.

JAE CODE:  
**C89**

# DIPLOMA IN **ELECTRONICS, COMPUTER & COMMUNICATIONS ENGINEERING**

Join our distinctive cohort and be leading-edge engineering professionals engaged in the creation of innovative electronic products and solutions that make modern living and lifestyles comfortable.

You will enjoy a unique advantage with our Centre of Innovation for Electronics, the only one established in a polytechnic with SPRING Singapore. With strong partnerships with multinational companies like Microsoft and Hewlett-Packard, you will learn industry best practices and latest cutting-edge technologies at our many high-tech R&D centres on campus. Under our proven balanced curriculum, our students have achieved excellence and won numerous awards and accolades in competitions at both the local and international levels.

“My journey in NYP has been a life-changing and fulfilling one. This course has provided me with a strong engineering foundation with its well-structured curriculum. Beyond that, NYP has also developed me into an all-rounder by enhancing my interpersonal and leadership skills. The lecturers are dedicated and helpful, always attentive to my constant bombardment of questions, even after school hours. Thanks to the excellent education I received here, I was awarded the SUTD scholarship to further my studies at SUTD.”

### **Lai Yong Cheng**

Diploma in Electronics, Computer  
& Communications Engineering  
Class of 2011

Undergraduate  
Singapore University of Technology and Design



### **This fits me to a T!**

This is the course for you, if you:

- Aspire to be a highly skilled engineering professional, engaged in the creation of innovative advanced electronic products and solutions
- Look forward to a progressive and rewarding career in high-growth and high technology industry sectors
- Aim to pursue further studies at reputable universities, either locally or overseas

### **What will I learn?**

You will gain a strong engineering foundation, in addition to specialist knowledge and skills in a wide range of electives, including:

- Green Technology
- Wireless Communications
- Embedded System Design
- Wafer Fabrication Technology
- Automation Design
- Telematics Systems
- Aerospace Electronics

You will also gain international exposure and experience through our Overseas Industrial Attachment, Overseas Project Centre Attachment and Overseas Immersion programmes.

### **I want a great career!**

Look forward to dynamic careers as engineering professionals and managers in high-growth sectors, such as:

- Clean Energy
- Telecommunications
- Semiconductors
- Biomedical
- Defence
- Aerospace
- Info-communications & Media

### **Uni, here I come!**

With this well-established diploma, you can pursue further studies with up to two years' exemption for related undergraduate programmes at reputable local and overseas universities, including:

#### **Singapore**

- National University of Singapore
- Nanyang Technological University
- Singapore Management University

#### **Australia**

- University of New South Wales

#### **Europe**

- Imperial College London

#### **United States**

- Purdue University

