

# 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:  
**C87**

# DIPLOMA IN **MECHATRONICS ENGINEERING**



“NYP’s Mechatronics Engineering course takes pride in offering a multi-faceted education that addresses the passion and aspirations of young people in a fast changing world. Throughout my three years of study in this course, I not only gained an excellent grounding in my technological and theoretical knowledge, but also developed confidence in my interpersonal skills. I have become more confident in presenting and expressing myself, and am trained to think on my feet.

I am now pursuing my Bachelor’s degree in Electrical & Electronic Engineering at NTU. I am looking forward to the day when I can contribute my knowledge and skills to the Mechatronics industry.”

**Wu Yushan**

Diploma in Mechatronics Engineering  
Class of 2010

Undergraduate  
Bachelor of Electrical & Electronic Engineering  
Nanyang Technological University



Be equipped with the skills to tackle technological advances with NYP’s Diploma in Mechatronics Engineering, a course that focuses on the integration of electronics, intelligent computer control and mechanical engineering.

You will be trained in various engineering disciplines and learn technologies that play a part in making products like computer hard disk drives, printers and DVD players. You will be at the right place to acquire all these skills, as we have an established track record in this field, being the first Polytechnic to offer a diploma-level Mechatronics course in Singapore.

**This fits me to a T!**

This is the course for you, if you’re:

- Fascinated by intelligent robots
- Interested in integrating technologies and making things work
- Into creating high-tech devices

**What will I learn?**

- Mechanics, control engineering, electronics and computing
- Fundamentals of Mechanical and Electronics Engineering
- Specialised electives in Automation and Systems Integration, Biomedical Engineering or Wafer Fabrication Technology

**I want a great career!**

Look forward to exciting careers as:

- Service Engineers
- Automation Engineers
- Systems Integration Engineers
- Equipment Engineers
- Development Engineers
- Biomedical Engineers

**Uni, here I come!**

Further your studies with direct entry into second year at reputable overseas and local universities, including:

- National University of Singapore (Electrical Engineering and Mechanical Engineering)
- Nanyang Technological University (Electrical & Electronic Engineering and Mechanical & Aerospace Engineering)