Words from our Graduates

NUS Engineering’s array of exciting courses allowed me to pursue my passion in both technology and filmmaking. This gave me an edge to pursue my dreams in the ever-changing digital media economy.

Dennis Tan, Class of 2019
Graduate

NUS Electrical and Computer Engineering gave me the chance to strengthen my critical thinking and analytical skills. At the same time, I was given the opportunity to work on projects that I am passionate about.

Jeremiah Wong, Class of 2017
Chief Operating Officer, 360

NUS Chemical and Computer Engineering helped me to understand the importance of working in a team and developing strong interpersonal skills. The mentors were always available to provide guidance and support.

Joyce Tan, Class of 2020
Graduate

ELECTRICAL ENGINEERING
Nurturing Holistic Engineers, Impacting Lives

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NUS Engineering

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Nurturing Holistic Engineers, Impacting Lives

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What is Electrical Engineering?

Electrical engineering is about invention and creation of devices and technologies that are essential to our modern life. This involves a vast array of fields, from electronics and communications to power systems, control systems, and signal processing. Electrical engineers design and develop systems that are used in a wide range of applications, from consumer electronics to power grids and telecommunications.

Specialisations

- **Communication & Networks**: Focuses on the design and implementation of communication systems, including wireless and satellite communications.
- **Automation, Process & Control Systems & Robotics**: Deals with the design and implementation of control systems and robotic technologies.
- **Microelectronics & Devices**: Focuses on the design and development of electronic devices and circuits.
- **Power & Energy Systems**: Focuses on the design and implementation of power systems and energy management.
- **Intelligent Control & Mechatronics**: Combines control systems and robotics with computer science and engineering.

Career Prospects

- **Manufacuring Intelligence**, a leading company in CO2, gas turbine, and gas engine manufacturing.
- **Leon Brown Corporation**, a leading manufacturer of precision machinery and components.
- **Greenchip Technologies**, a leading company in energy efficiency and renewable energy solutions.

The NUS Electrical Engineering programme prepares graduates to be versatile, thinking professionals, and leaders in their fields, equipped with a broad range of skills, knowledge, and skills that will serve them well in the competitive job market.