



Communication and Computer Engineering (CCE)

Cairo University Faculty of Engineering



Overview

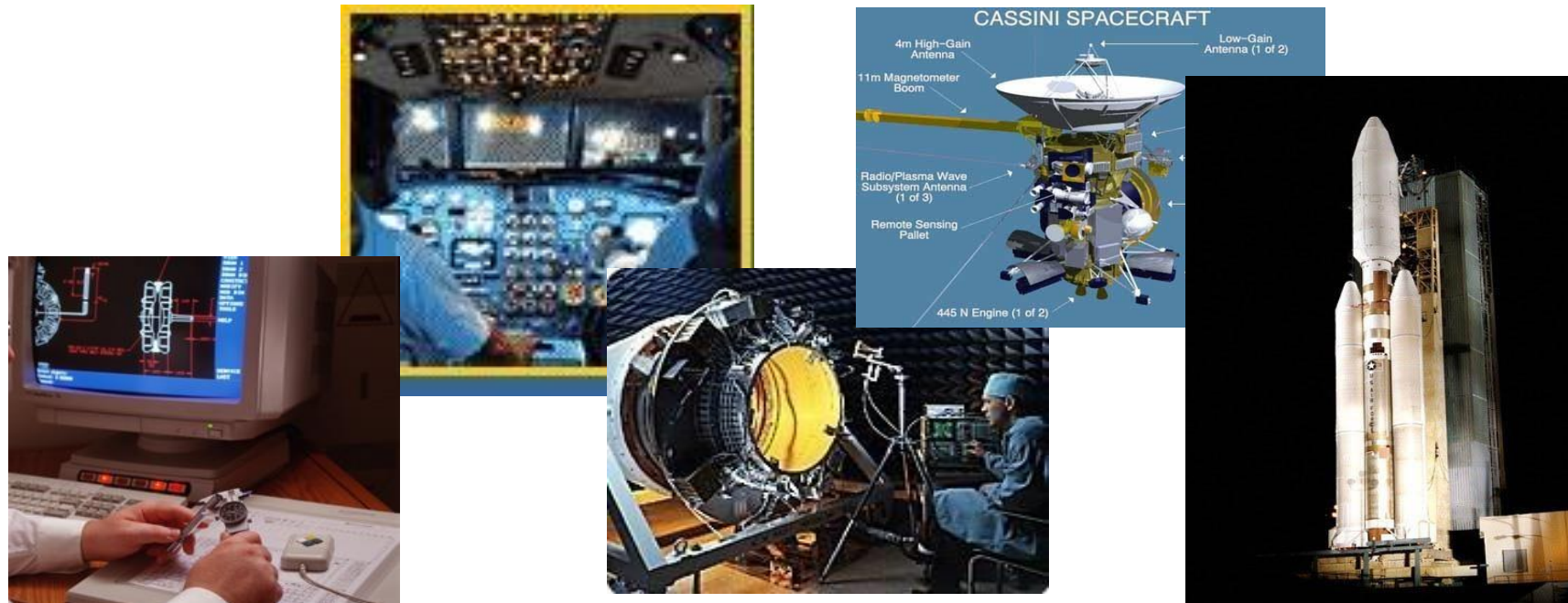


- ❑ What is CCE?
- ❑ What do CCEs do?
- ❑ Why CCE?
- ❑ What do CCEs learn?
- ❑ What careers await CCE graduates?



What is CCE?

CCE Engineers are inventors and innovators who apply knowledge of hardware circuits, computer software and systems to develop technologies to improve people's lives



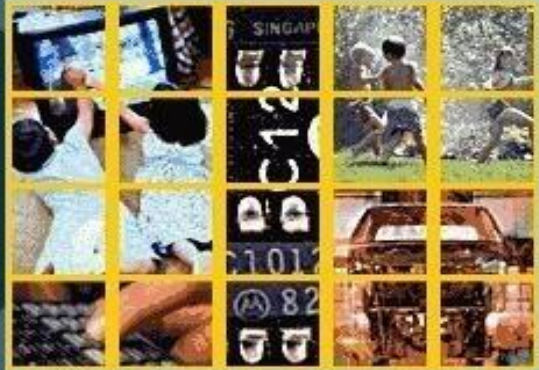
What is CCE?

Greatest Engineering Achievements OF THE 20TH CENTURY

◆ About ◆ Timeline ◆ The Book

Welcome!
How many of the 20th century's greatest engineering achievements will you use today? A car? Computer? Telephone? Explore our list of the top 20 achievements and learn how engineering shaped a century and changed the world.

1. Electrification	11. Highways
2. Automobile	12. Spacecraft
3. Airplane	13. Internet
4. Water Supply and Distribution	14. Imaging
5. Electronics	15. Household Appliances
6. Radio and Television	16. Health Technologies
7. Agricultural Mechanization	17. Petroleum and Petrochemical Technologies
8. Computers	18. Laser and Fiber Optics
9. Telephone	19. Nuclear Technologies
10. Air Conditioning and Refrigeration	20. High-performance Materials



CCE

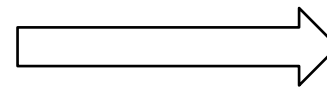
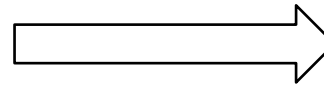
Greatest Achievements

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Tremendous impact on the world

What do CCEs do?

- Develop technologies for easier life...



What do CCEs do?

- ❑ Easier to communicate



What do CCEs do?

- ❑ Easier to get energy



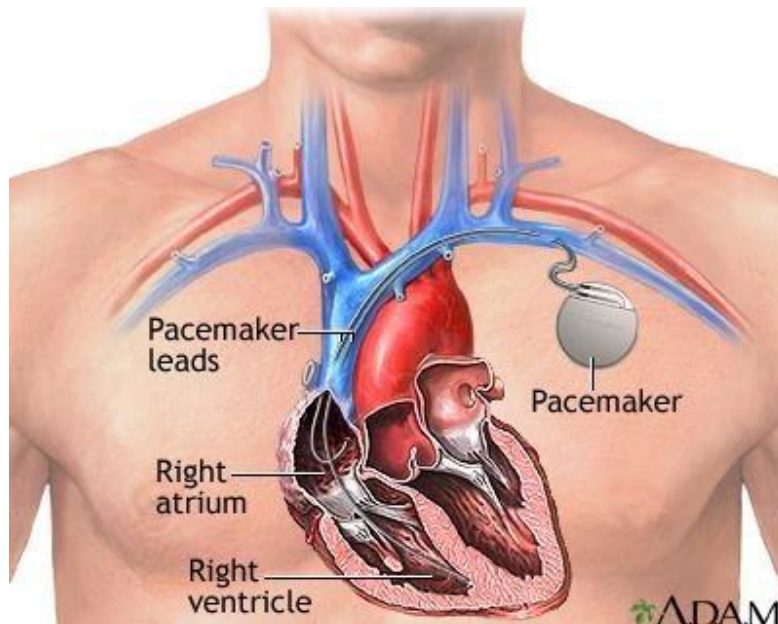
What do CCEs do?

- Easier to travel..



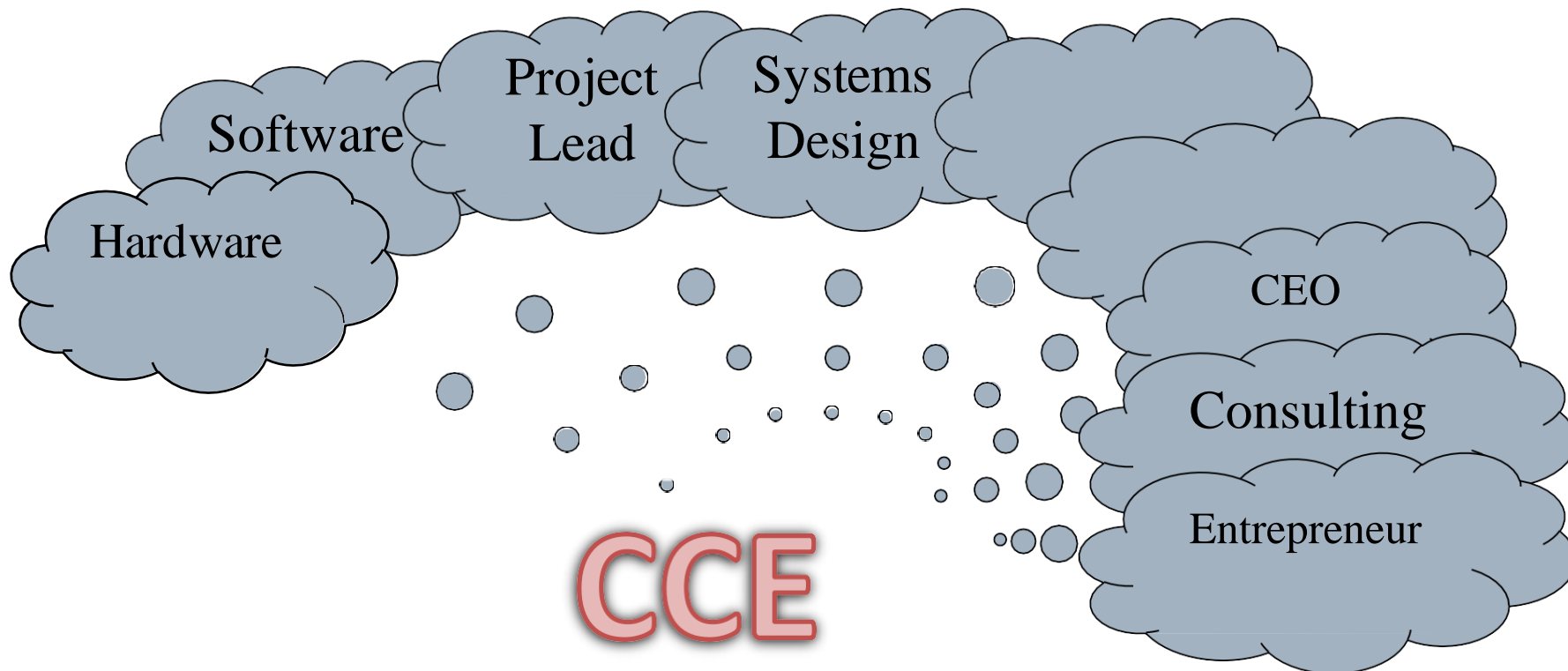
What do CCEs do?

- ❑ Easier to be healthy



What do CCEs do?

A degree in **CCE** is one of the most flexible and powerful undergraduate degrees you can get!



Why CCE?

- **Make a difference**
- **High satisfaction**
- **High flexibility**
- **High demand**
- **High pay**



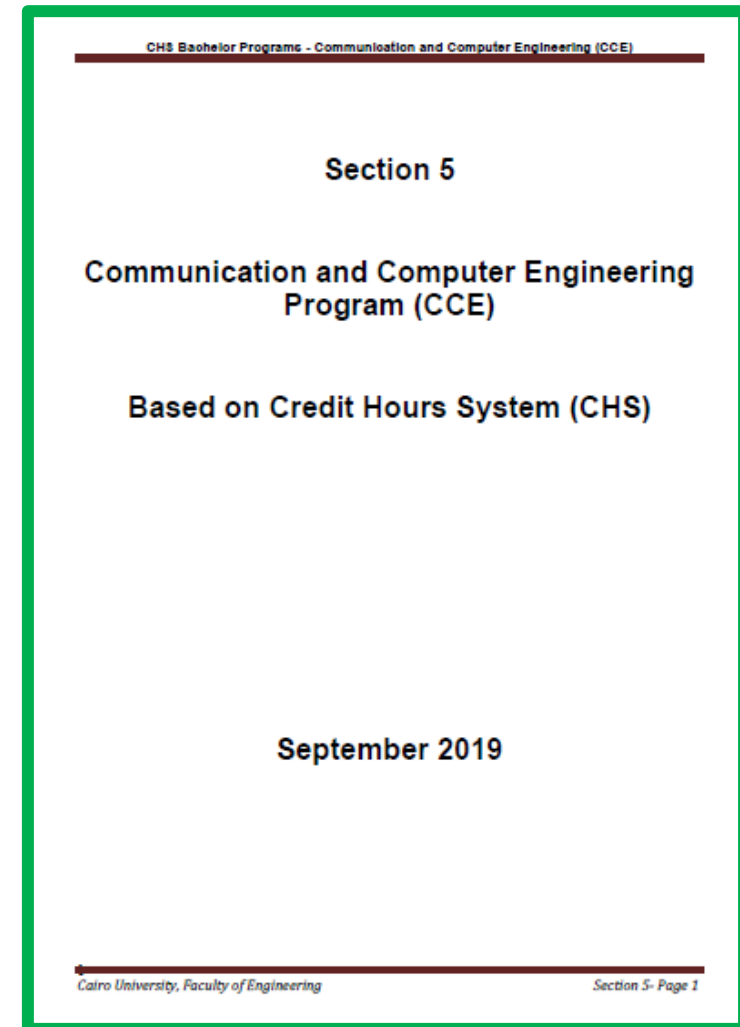
Why CCE?

- **Love work AND live life, too**
- **Be creative, solve problems**
- **Work with great people**
- **Design things that matter**
- **Never be bored**
- **Make a big salary**
- **Enjoy job flexibility**
- **CHANGE THE WORLD**



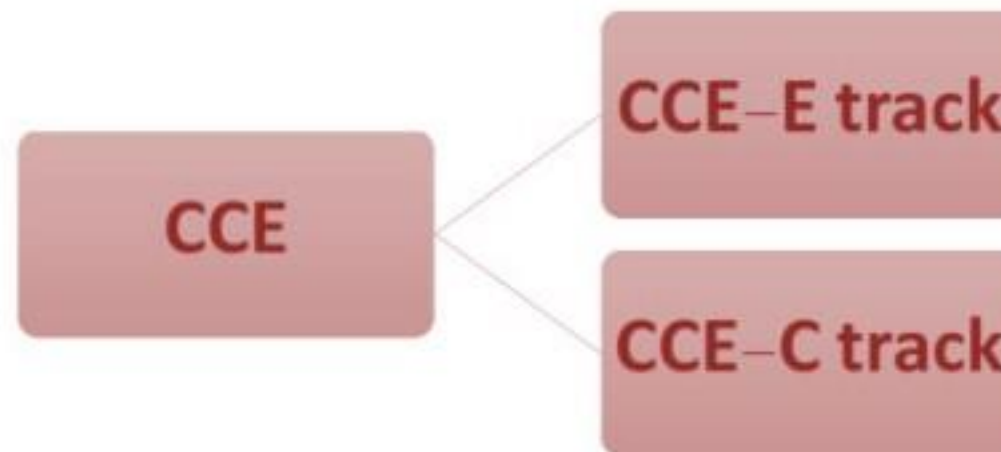
What do CCEs learn?

- Circuits and Electronics**
- Communication systems**
- Optical fibers and antennas**
- Computer programming and architecture**
- Computer networks**
- Embedded systems**
- Digital/Analog design**
- Software engineering**
- Machine learning**



CCE Tracks

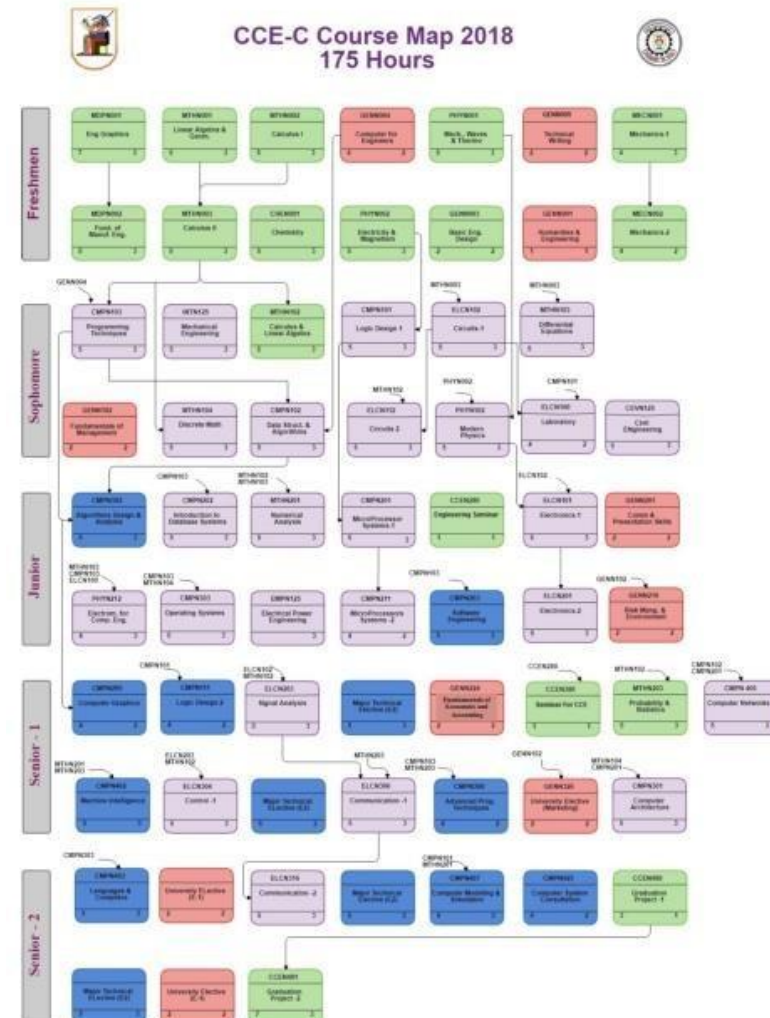
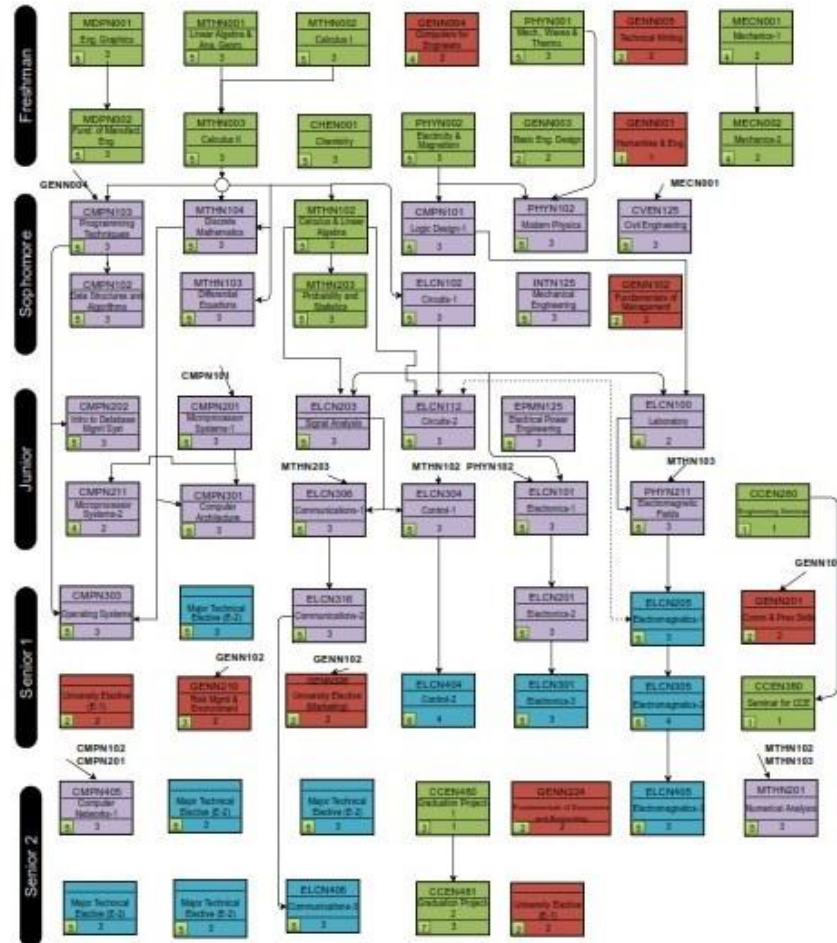
Communication and Computer Engineering



What do CCEs learn?



Course Map – Communication & Computer Engineering
Major in Communication Engineering (CCE-E) 2018/2019



What careers await CCE graduates?



□ Companies our students go to work at:

■ Telecommunications:



■ IT Products :



What careers await CCE graduates?

□ **Companies our students go to work at:**

■ **Embedded systems:**



■ **Electronics:**



What careers await CCE graduates?



- **Companies our students go to work at:**
 - **And many more companies.....**

- **Salary range:**
 - **Reported starting salaries: \$1100/month at Synopsys/Mentor Graphics.**
 - **Reported starting salaries: 12500LE/month at Valeo/NI**
 - **Reported starting salaries: 9500LE/month at Vodafone/Orange/Etisalat/Huawei**

What careers await CCE graduates?



□ **New technologies:**

- **Intelligent systems**
- **Internet of Things (IoT)**
- **Renewable Energy**
- **Nanotechnology**
- **Robotics**
- **SDR: Software Defined Radios and Networks**
- **Big Data Analysis**
- **Cloud Computing**
- **Blockchain**

What careers await CCE graduates?



- Startup companies**
- Research at top universities**
 - **Internship, Master, and PhD programs**
- Research and Development**
 - **International companies**
- Academic positions**
 - **Public & Private Universities**

What careers await CCE graduates?



Become a **CCE**
and **Make a Difference**