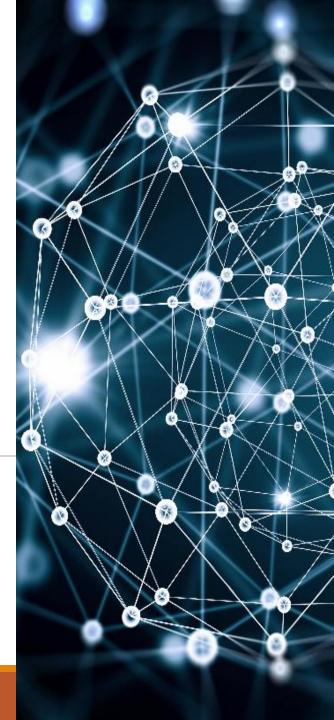
# Career presentation for IT Managers / Engineers

### Yorgos Katsikogiannis

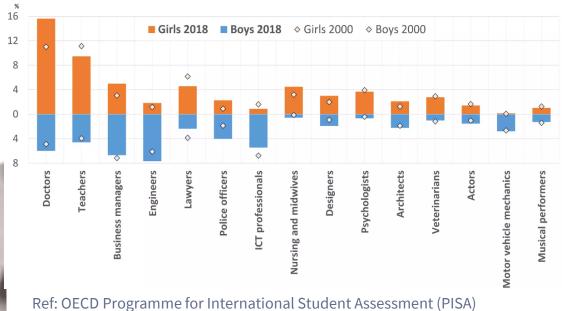
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### **Career selection criteria**



The fifteen most common occupational expectations among 15-year-olds



### IT & Computer Engineering paths

Computer Science

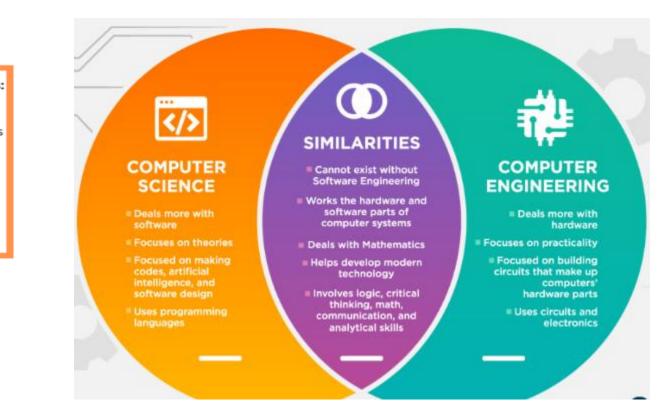
#### Students will be exposed to areas such as:

1.Algorithms and complexity
2.Architecture and organization
3.Computational science
4.Discrete structures
5.Graphics and visualization
6.Human-computer interaction
7.Information assurance and security
8.Information management
9.Intelligent systems
10.Networking and communications



#### Students will be exposed to areas such as:

1.Computing essentials 2.Mathematical & Engineering fundamentals 3.Professional practice 4.Software modeling and analysis 5.Requirements analysis and specification 6.Software design 7.Software verification and validation 8.Software process 9.Software quality and security



## IT & Computer Engineering career fields

- Software engineering: Duties include creating, maintaining, and updating software
- Hardware engineering: Main task to create new hardware technologies and computers
- Electrical engineering: Telecommunication, electrical design engineering, instrumentation engineering, and micro-electrical engineering are other possible specialties
- Network engineering: Field Engineer, Network specialist, Network architect



### Required skills for IT & Computer Engineering

- Strong background in Maths
- Intimate understanding of the way technology works
- An eye for detail and a good deal of concentration
- Analytical skills
- Strong problem-solving skills
- Good communication skills
- Good team player
- Be an Expert

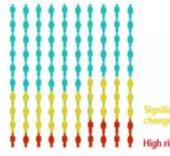
# IT & Computer Engineering challenges

- Digital revolution (1980)
- Digital transformation & continuous innovation
- Digitalization and intelligent automation (chatGPT, ML)
- Increase in remote working and/or collaboration tools
- Increasing demand for online purchasing/services
- Increasing migration to the cloud

### With the labour market undergoing rapid, fundamental change – decision-making is more important, but also more difficult.



Jobs are at risk of automation



New forms of work are emerging





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