A Career in Electrical and Computer Engineering

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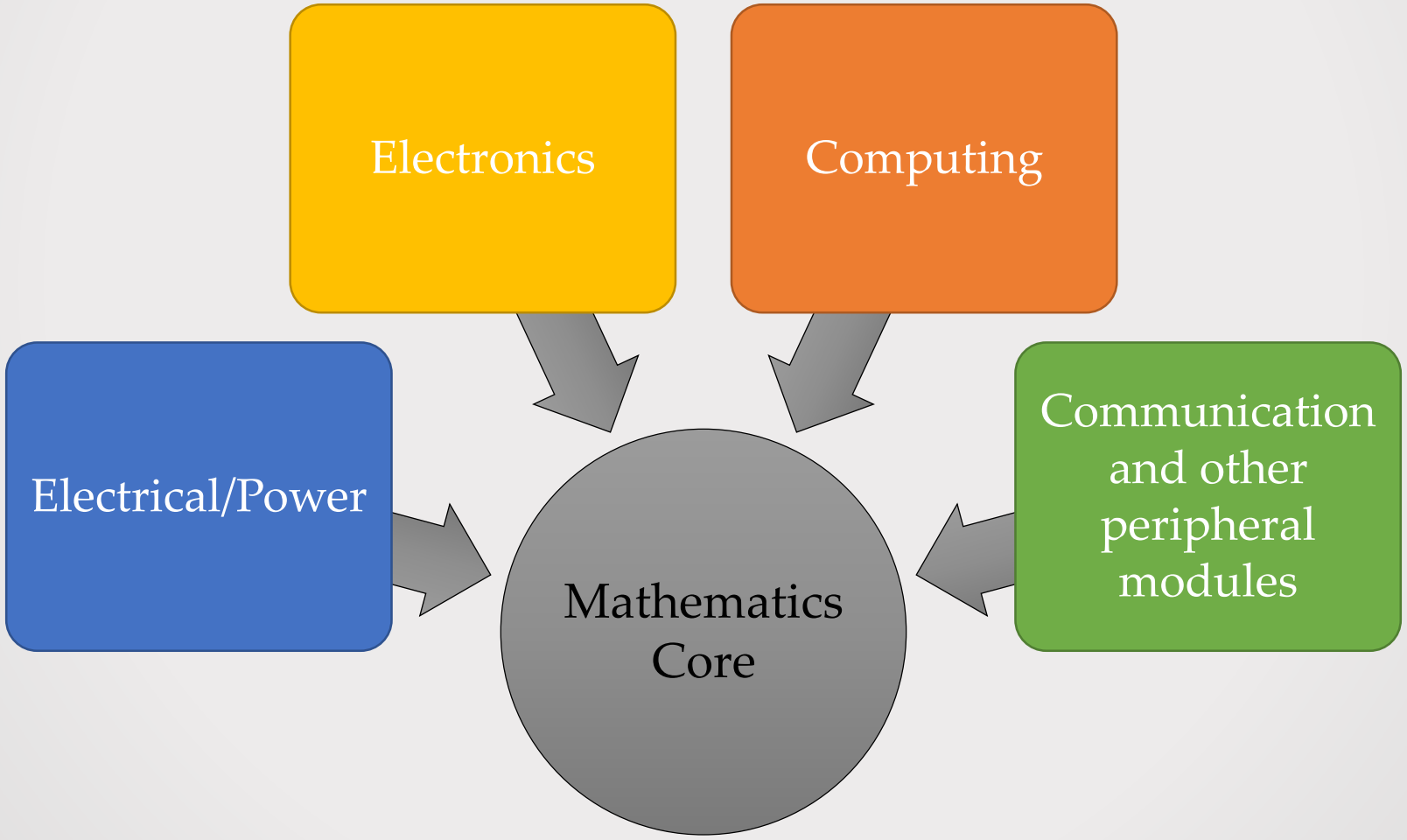
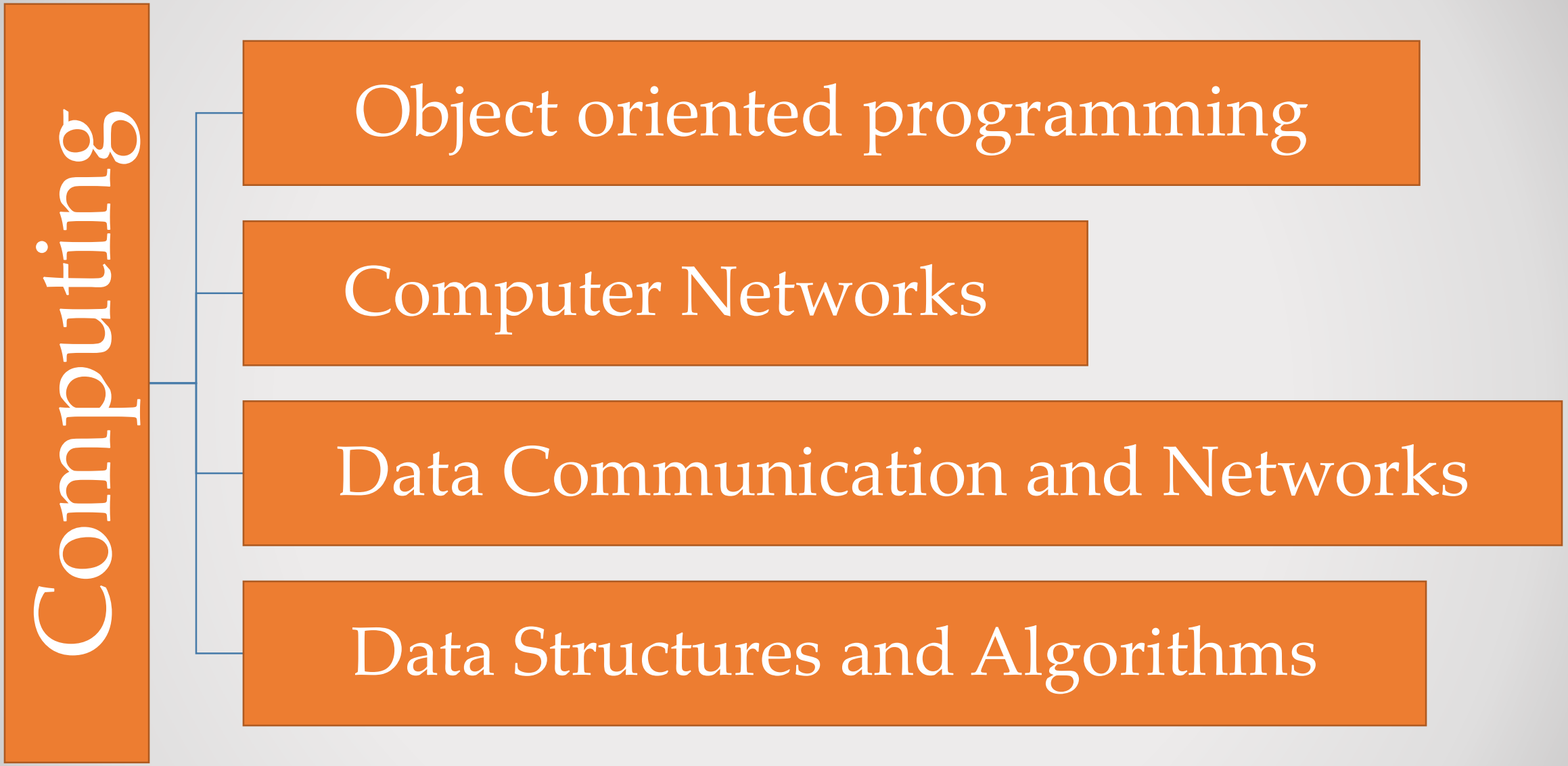
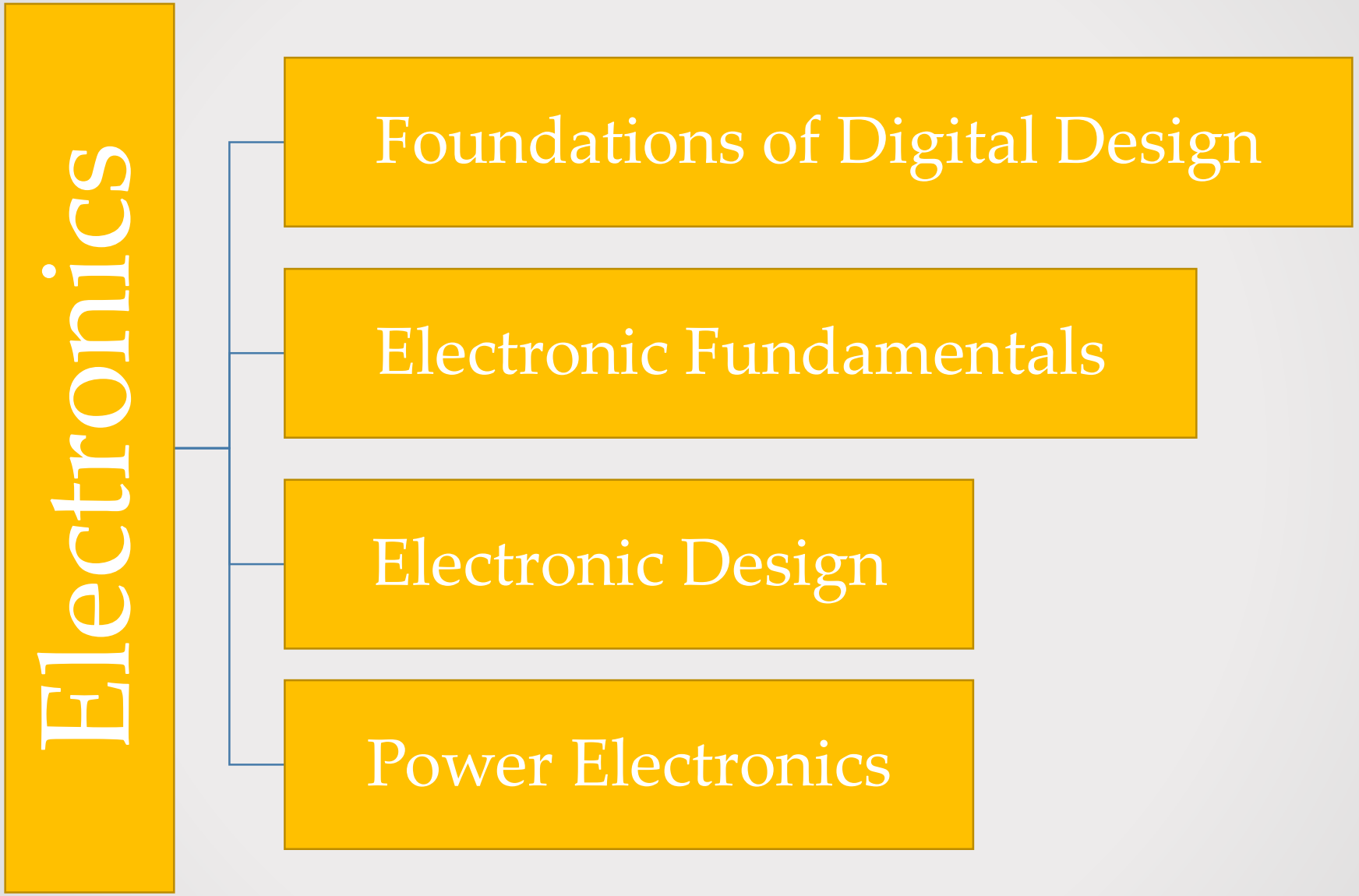
What makes an Engineer?

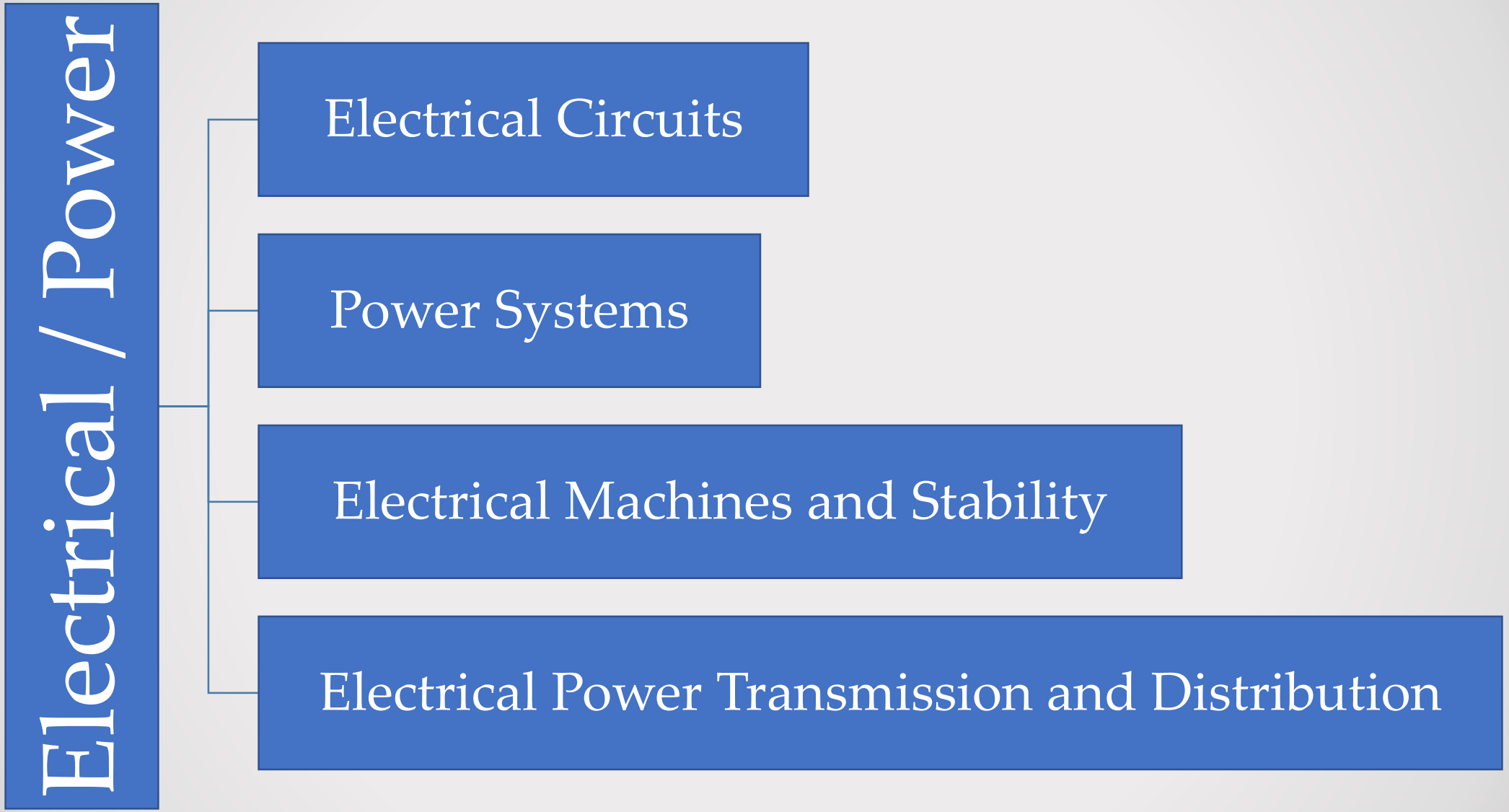
- Interested in knowing how things operate and work
- Want to solve real world problems
- Interested in Experimentation, Design and Implementation
- Good at Math and Science
- Being creative and eager to lean new things
- Reasonably good communicator

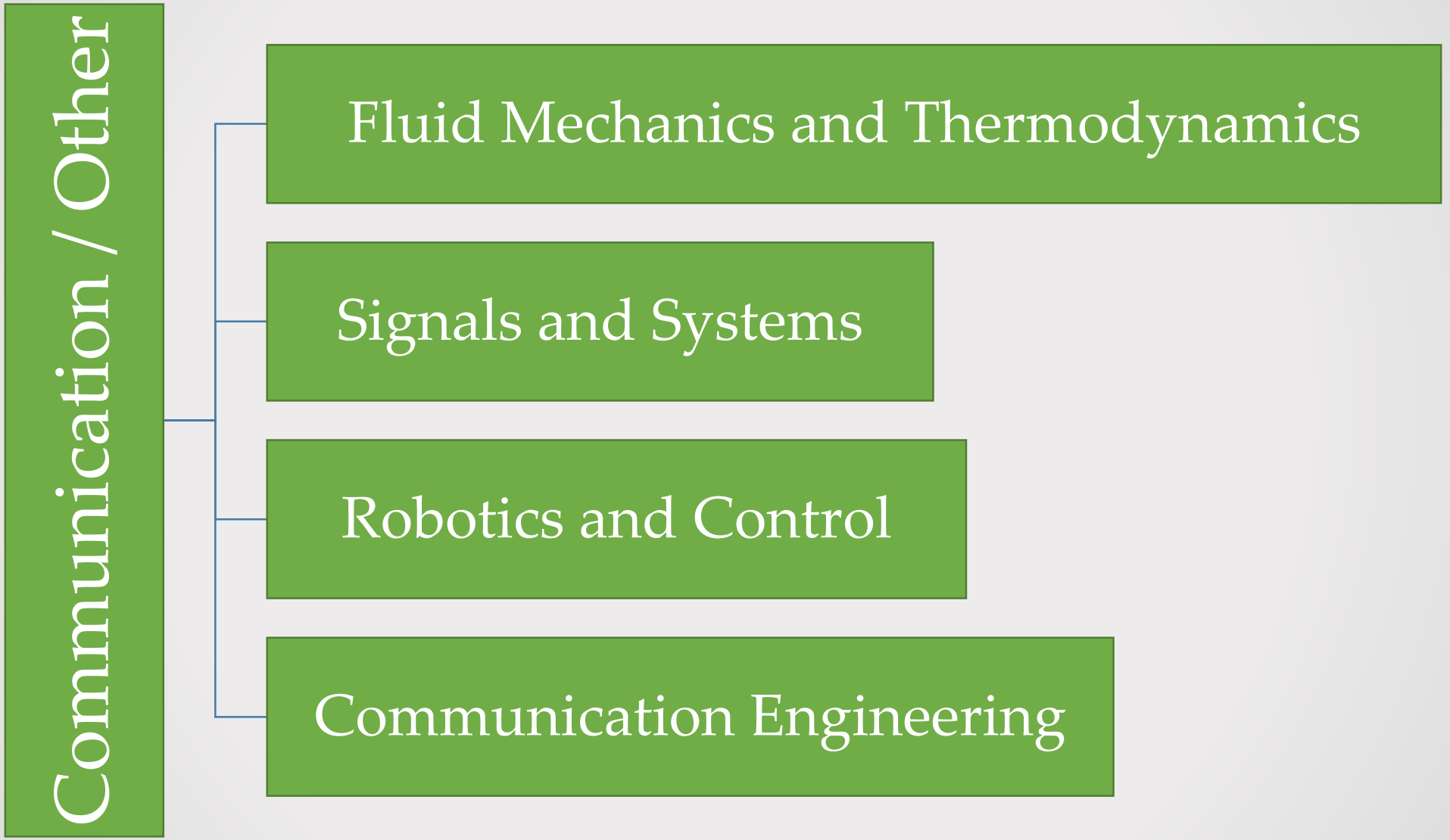
Core areas of expertise




Computing
Object oriented programming
Computer Networks
Data Communication and Networks
Data Structures and Algorithms


Electronics
Foundations of Digital Design
Electronic Fundamentals
Electronic Design
Power Electronics


Electrical / Power
Electrical Circuits
Power Systems
Electrical Machines and Stability
Electrical Power Transmission and Distribution


Communication / Other
Fluid Mechanics and Thermodynamics
Signals and Systems
Robotics and Control
Communication Engineering

Example Areas of Employment

Electronics Industry

- Design engineers
- Product developers
- Quality control
- Production engineers
- Maintenance
- Automation

Electrical Industry

- Test engineers
- Maintenance
- Value added services
- Transmission/distribution/generation

Example Areas of Employment

Information Technology Industry

- System design (Embedded or otherwise)
- Software development
- Network solutions
- Middleware design
- Marketing/customer service/management

Communication Industry

- Value added services
- Network management
- Customer care

Example Areas of Employment

Peripheral Industries

- Instrumentation
- Project management
- Biomedical applications

Other Opportunities

- Research and development
- Teaching
- Self employed entrepreneur

Possible Employers

- Mobile operators (Dialog/Mobitel/LankaBell)
- CEB/LECO
- Zone24x7
- TV Operators (Rupavahini/Sirasa)
- MIT (Networking/Software)
- MAS
- KBS
- Nikini Automation
- ACL Cables
- Metropolitan
- hSenid
- Virtusa
- IE Technics

- Find out where your seniors have gone for training.
- Sky is the limit

Qualities you need to gather during your program

- Creative mindset
- Perseverance
- Good interpersonal skills
- Logical and analytical thinking
- Time management/ Stress management
- Consistency in activities
- A balance of practical and analytical skills
- Self learning ability (Markets change rapidly)

Additional Information

- Interviewers are smart. Don’t bluff with learning.
- Self learn but seek help
- Feedback is extremely important
- Math skills should be sharpened
- The placement of a job is entirely dependent on the technical and interpersonal ability
- People with electrical engineering backgrounds have known to change fields (financial/management/banking)