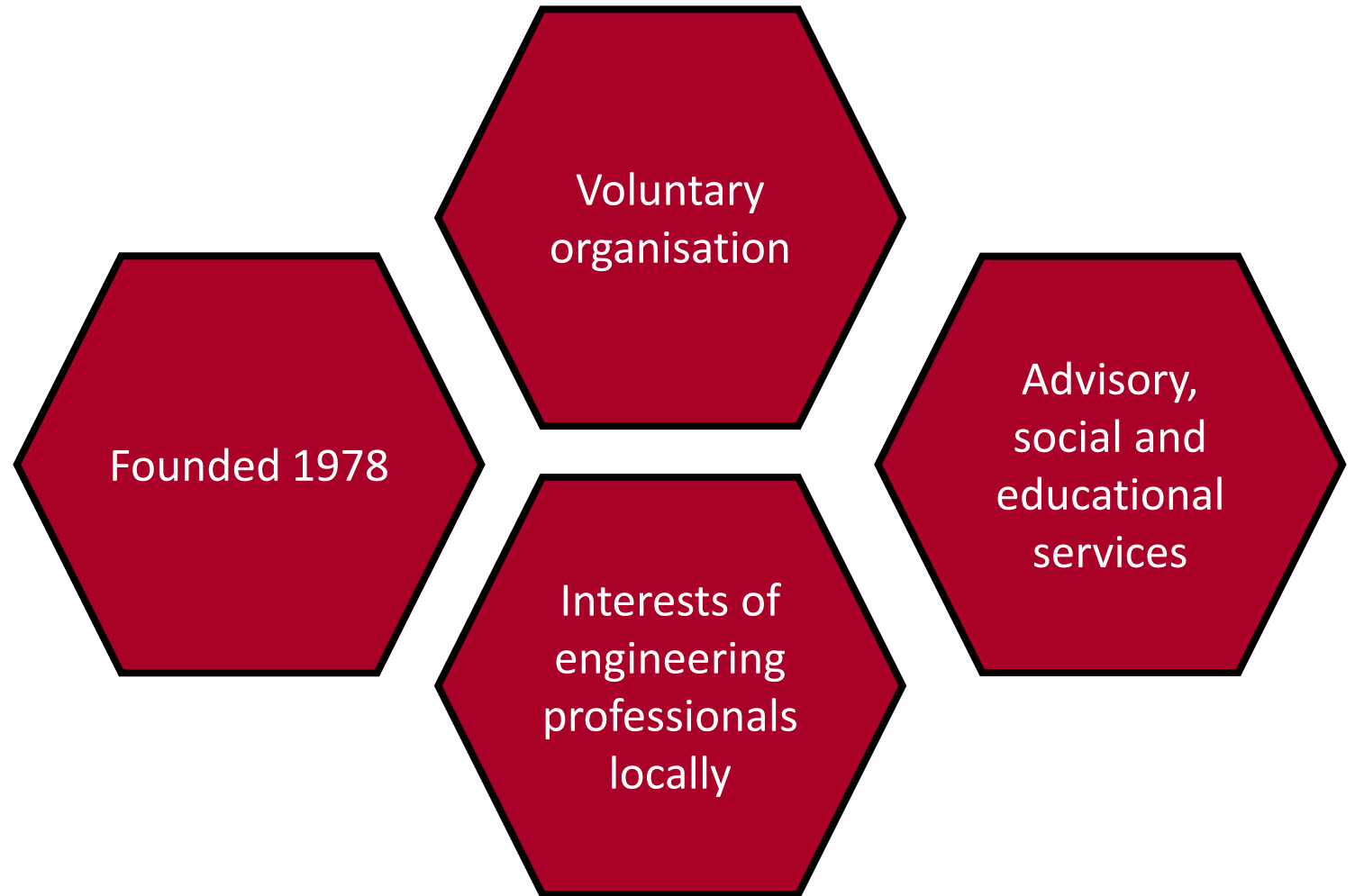
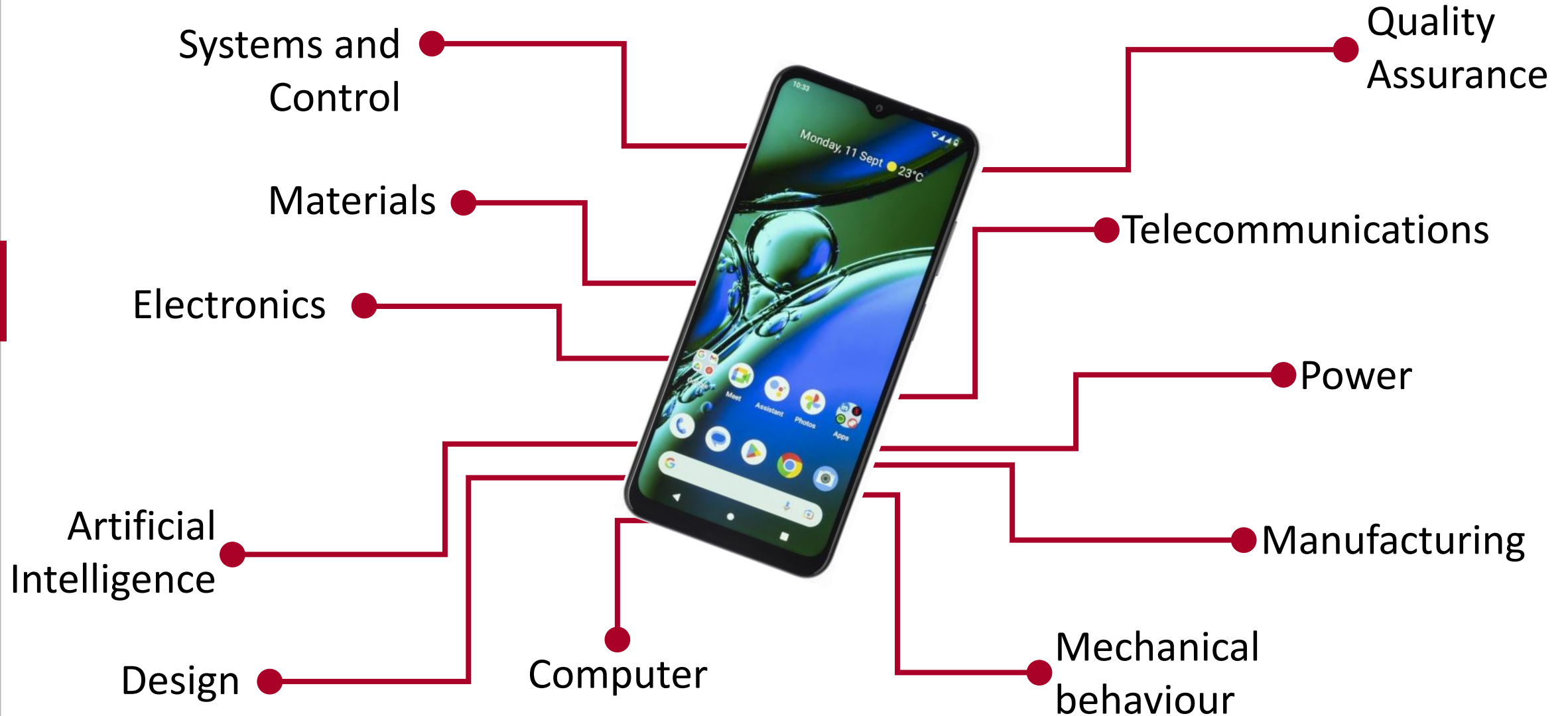


Careers in **Engineering**

Chamber of Engineers



Example of some **engineering** roles



Problem
solving

Creating
useful
things

Maths,
science, and
creativity

Understanding
how things
work

**“But what
does an
engineer do?”**

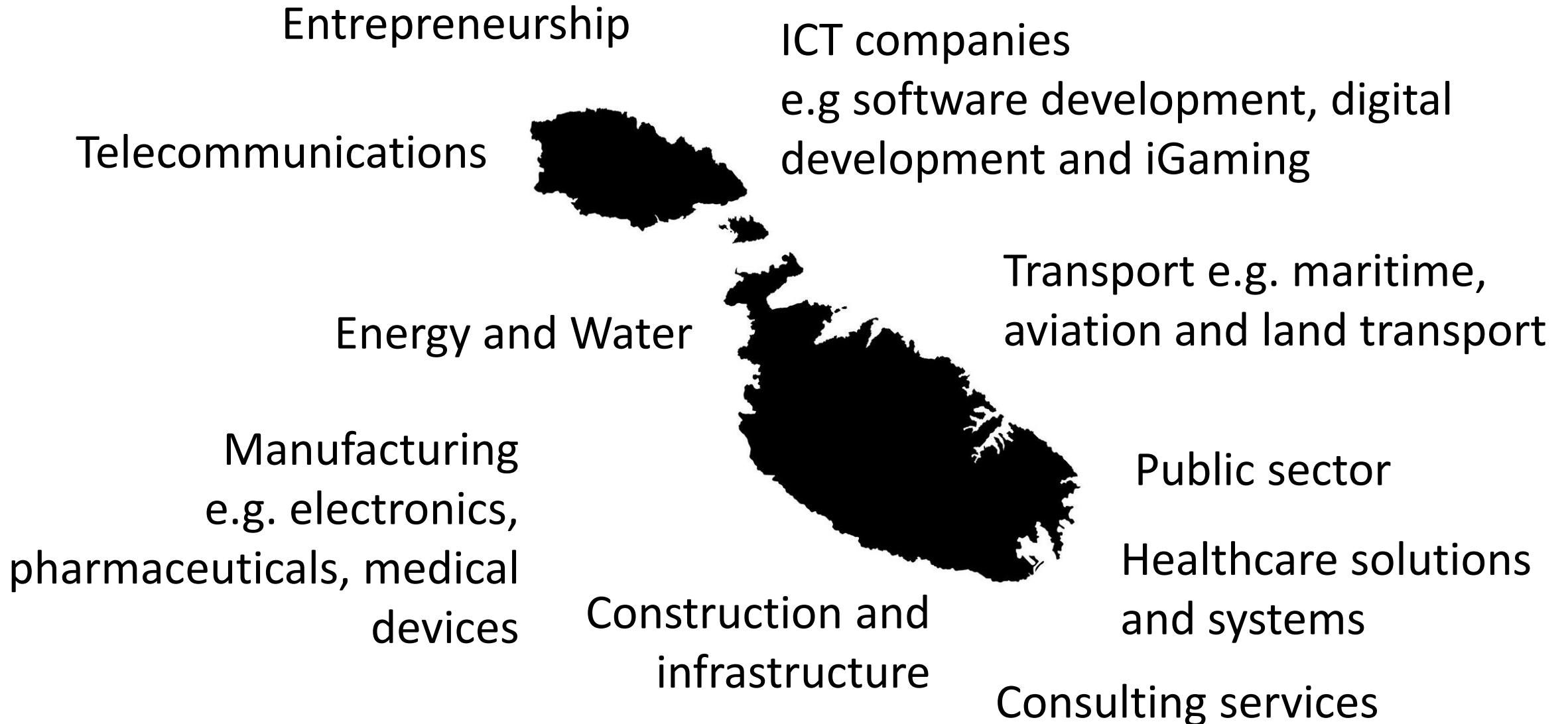
Designing
new
things



Making
things work
better

Helping
people

Where do **engineers** work?



Where do **engineers** work?

Not only
employable in
Malta



Engineers
beyond
our shores

CONNECTING PATIENT CARE WITH TECHNOLOGY

THE STORY OF ING. ANDRE LUPI

It is often not easy to fully appreciate the breath of the engineering profession and the opportunity it presents to make a difference in our societies. At a young age, the importance of the subject is easy to grasp since household items, means of transportation, telecommunication, to mention a few, are all built on engineering principles. However, engineering has deeper socio-political-economic effects which can be hard to appreciate fully, and it is here that our profession truly stands out amongst others.



Engineers
beyond
our shores

DRIVING DIVERSITY AND INNOVATION

THE STORY OF DR NICOLETTE FORMOSA

Engineering is more than just a profession for me; it is a passion that has been a constant in my life since I was young. My fascination with mathematics and its practical applications led me to explore the world of engineering, where I discovered the limitless possibilities of how this field can shape our world. To me, engineering is a way of life that enables me to utilise my skills and knowledge to create positive change in society.



Engineers
beyond
our shores

A PASSION FOR TELECOMMUNICATIONS

THE STORY OF ING. INGRID CAMILLERI

As a student, my passion for mathematics led me to pursue an engineering degree at the University of Malta, despite not having a clear career path in mind. Upon graduating, I seized an opportunity to work at a local telecommunications company, where I delved into the exciting world of broadband data connectivity, a cutting-edge field at the time. This experience ignited my interest in telecommunications, prompting me to further expand my knowledge by pursuing a Masters degree at University College London. The beauty of this journey was not only acquiring knowledge about the latest technological advancements but also collaborating with individuals from diverse backgrounds and cultures.

The telecommunications industry is known for its rapid evolution, driven by the increasing need for connectivity in our daily lives. The COVID-19 pandemic further emphasised the significance of reliable connectivity, highlighting the possibilities and opportunities of remote work. Throughout my time at GO, as a telecommunications engineer, I had the privilege of working on various aspects of the network, including IP networks, broadband data, and mobile technologies. My role encompassed both supporting existing systems and designing customised solutions for enterprise customers, tailoring technology to meet their specific needs.

To stay ahead in this ever-evolving field, I had to constantly update my skills and knowledge. I was lucky enough to work with a company that fully embraces and encourages a learning culture that allows us to grow both professionally and personally. I therefore had ample opportunity to participate in technical courses, often requiring me to travel to different countries. These experiences provided me with a unique opportunity to explore new technologies while embracing diverse cultures. Through such exposure, I eventually transitioned into technical project management, leveraging my expertise in supporting networks to influence major projects. This allowed me to ensure that the right technical decisions were made, keeping projects on track in terms of time and budget.

One of the most gratifying moments of my career was being selected to lead the program



management across the entire company, overseeing the implementation of major technological changes. This responsibility provided me with the chance to build and lead a dedicated team, driving the company's roadmaps forward. Additionally, I had the privilege of studying at UC Berkeley in the US, where I enrolled on an executive training course.



Skills to become an **Engineer**

- Problem Solving
- Eager to learn
- Analytical
- Aptitude for Design/Creative
- Curiosity
- Interested in Technology



Engineering Experiences



Link to the video: <https://www.coe.org.mt/engineer-your-career/>

Engineering Experiences



Link to the video: <https://www.coe.org.mt/engineer-your-career/>

Curious?

Several videos are available at:
<https://www.coe.org.mt/engineer-your-career/>

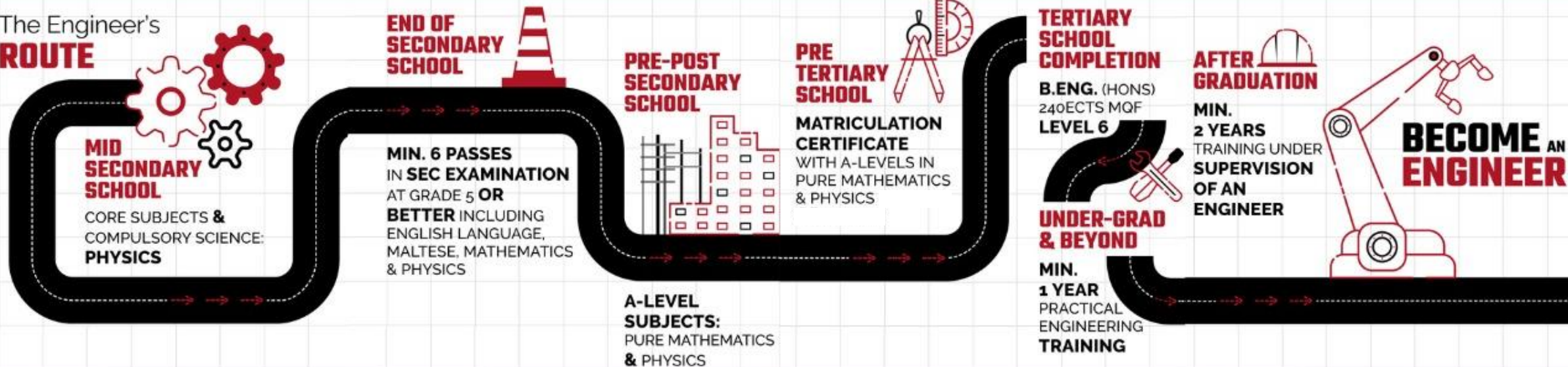
Featuring engineering professionals speaking about their career and experiences.

CoE is happy to help – get in touch with us!

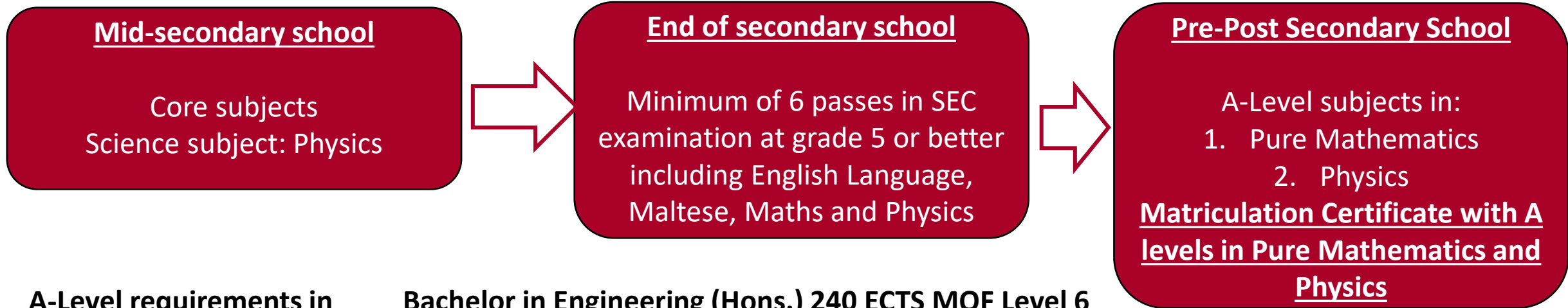


Qualifications and Progression

The Engineer's ROUTE



Qualifications in Detail

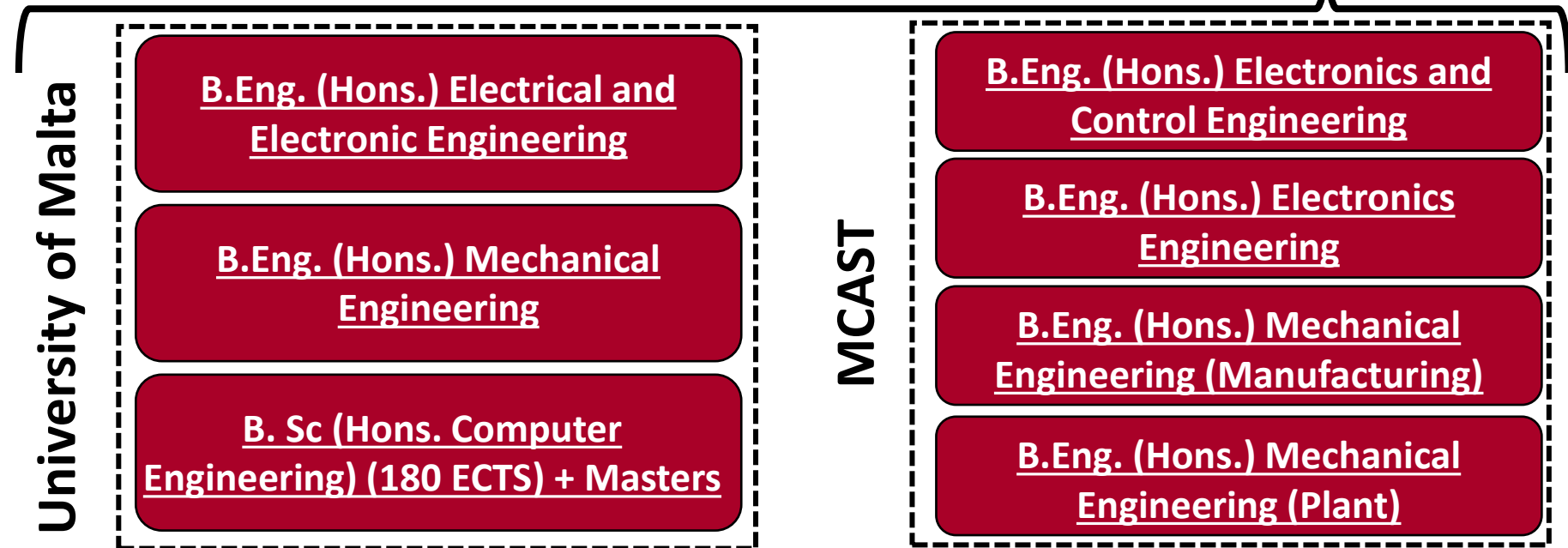


A-Level requirements in detail

University of Malta:
Passes in grade C or better in Pure Maths and Physics for Engineering.
Pass grade C in Pure Maths and another subject and Intermediate in Physics for Computer Engineering.

MCAST:
Grade C on average in Maths (Pure or Applied) and Physics.

Bachelor in Engineering (Hons.) 240 ECTS MQF Level 6 satisfying requirements for the engineering warrant



Other Routes

University of Malta

Certificate in Engineering Sciences
MQF Level 4, 60 ECTS
(1 year)

Entry requirements:

1 science subject at A-level OR
MQF level 4 in engineering domain
(pass with merit) + pass in sec
certificate examination at
minimum grade 5 in English,
Maltese and Maths.

This satisfies entry requirements
for the B. Eng. and B.Sc. Computer
Engineering courses at UM.

MCAST

Diploma Level 4 courses in
engineering domain, pass at 60%
or higher (i.e. C average).

This satisfies entry requirements
for the Certificate course at UM or
the Level 6 B.Eng. (Hons.) courses
at MCAST

MCAST

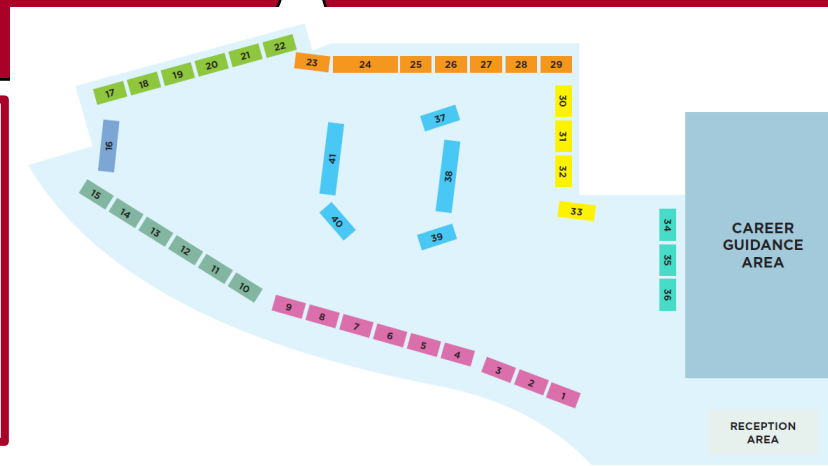
Diploma Level 5 courses
(Undergraduate Diploma in
Foundations of Engineering) +
passes at SEC grade 5 or better in
English Language, Maltese, Maths
and Physics.

This satisfies entry requirements
for the B. Eng. (Hons.) courses at
MCAST and UM (*subject to an
interview*).

Further guidance is available.

Visit the stands in the Hall.

**Make an appointment with the career
guidance teachers**



Further information

MCAST Course overview and entry requirements:

Electrical and Electronics Engineering:

<https://mcast.edu.mt/electrical-and-electronics-engineering/>

Mechanical Engineering:

<https://mcast.edu.mt/mechanical-engineering/>

University of Malta Course overview and entry requirements:

Bachelor of Engineering (Honours) in Mechanical Engineering:

<https://www.um.edu.mt/courses/overview/ubenghmecft-2024-5-o/>

Bachelor of Engineering (Honours) in Electrical and Electronic Engineering:

<https://www.um.edu.mt/courses/overview/ubengheleft-2024-5-o/>

Certificate in Engineering Sciences:

<https://www.um.edu.mt/courses/overview/ucensft-2024-5-o/>

What comes **After**?

**TERTIARY
SCHOOL
COMPLETION**

B.ENG. (HONS)
240ECTS MQF
LEVEL 6



**UNDER-GRAD
& BEYOND**

**MIN.
1 YEAR
PRACTICAL
ENGINEERING
TRAINING**



**AFTER
GRADUATION**



**MIN.
2 YEARS
TRAINING UNDER
SUPERVISION
OF AN
ENGINEER**



**BECOME AN
ENGINEER**



Chamber of
Engineers

Thank you for
your attention

Questions?



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