

# Queen Mary Cybathlon Team

## Assistive all-terrain robotic wheelchair

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Joshua Brown, Kaspar Althoefer, Ketao Zhang, Dylan Morrissey, Ildar Farkhatdinov  
& many more new members

### Students to go to Bionic Olympics 2020

The **CYBATHLON** is a unique international championship in which people with physical disabilities compete against each other to complete everyday tasks using state-of-the-art assistive robots.

Queen Mary team composed of students and academics will compete in the wheelchair race in 2020.



The team is mainly composed of undergraduate and master students from engineering, computer science and medicine. PhD students and faculty members co-ordinate the team.

The team is led by Dr Ildar Farkhatdinov, Lecturer, Robotics, EECS QMUL.

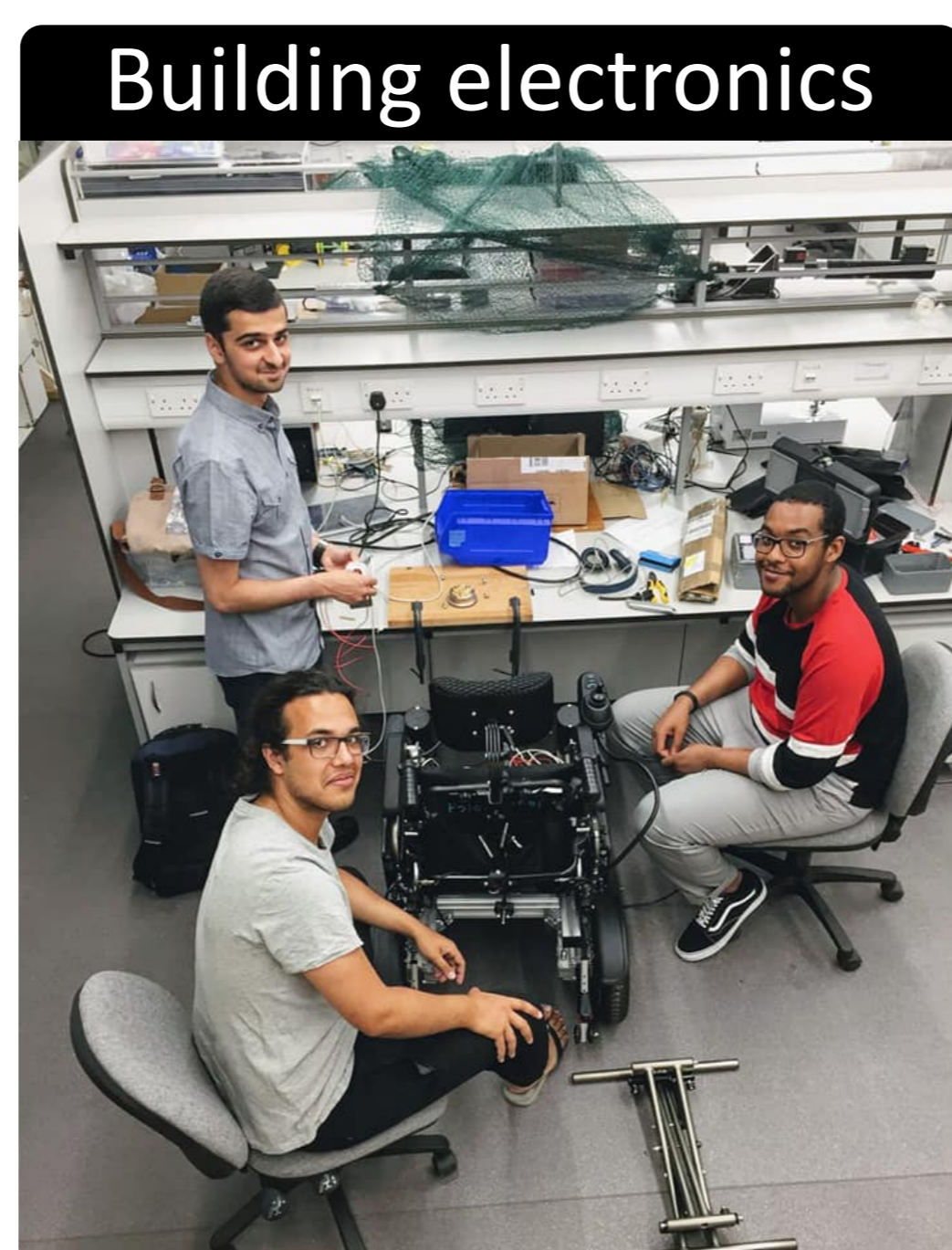
Activities are based in the lab of the Centre of Advanced Robotics.

#### Key components:

- electrically actuated wheels
- linear actuators
- reinforced ergonomic frame
- embedded controller
- power electronics

Students acquire practical skills in mechanical design, manufacturing, embedded electronics, actuators control, programming and user interaction design.

Development of teamwork and soft skills is a crucial objective of the project.



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