

IEEE UK&I RAS STEM EVENT

HOST: CENTRE FOR INTELLIGENT AUTONOMOUS MANUFACTURING SYSTEMS,
QUEEN'S UNIVERSITY BELFAST

VENUE: QUEEN'S UNIVERSITY BELFAST, THE GRAND LECTURE ROOM IN THE ASHBY
BUILDING, STRANMILLIS ROAD, BELFAST, NORTHERN IRELAND, UK, BT9 5AG.

TIME: 18:00-19:00, 24 OCT. 2018

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PROGRAMME

10.00 – 10.30 Sorting Teams & Prep

10.30 – 10.45 Quick Juice & Biscuit Break

10.45 – 12.00 Session 1

12.00– 12.30 Lunch

12.30 – 13.30 Session 2

13.30 – 14.00 Talks

TARGET

Students of ages 13-14. Queen's network has 85 confirmed participations (plus the accompanying teachers). There are 17 different schools participating so far which roughly leads to 20 teams.

ACTIVITIES

Two activities will run in turn for both sessions, 10 teams per activity per session.

Activity 1 is based on a microcontroller with capacitive sensing capabilities. The idea is each team to experiment in programming the microcontroller to sense different objects, in our case fruits. In this activity we are planning to have a crash course in block programming.

Activity 2 is based on assembling and building a 'robot', by using servomotors, moving parts, on-off switches etc.