



## Spark Engineering Camp Activity List, Brisbane 2015

29 June - 04 July

### Confirmed Activities

#### Relay Quiz

The first activity students participate in! Questions are asked, and groups must work together in order to figure out the correct answers in the fastest time possible - with some handy hints from staffies of course

#### Robogals

The team from Robogals give students a rundown on programming LEGO robots, which then must be used to solve a variety of different problems

#### University Skills Seminar

Staffies give a quick UNI101 lesson; focusing on skills and processes that can be developed and refined throughout high school allowing students to excel when they reach university

#### Egg Drop

Students must construct a protective capsule to prevent an egg from cracking when dropped - even from 7 stories high!

#### Bridge Build

Using limited supplies of paddle pop sticks, straws, string, and tape students must attempt to design the strongest bridge possible

#### Entrepreneurial Development

Think of a problem you face in the world, then develop an invention to solve it. Students then develop a marketing strategy to present to the group, showcasing what their product can do.

#### Forum

Issues are brought to the table with both sides presented. It's then up to the students to share their opinions on the matter, and open up discussion

#### Letter to You

Students write a letter to themselves that we send them in a year's time to remind themselves what they learnt and gained over the previous week





### Staffie Panel

Staffie Q&A. 5 very unique staff members; any questions answered. A good way for students to ask questions on the personal experiences staffies have had

### UQ Racing

UQ Racing is an entirely student run club on campus that works together to build a Formula SAE vehicle every year. After showing a quick presentation on their operations, students can walk through the workshop and even see the car all fired up

### UQ EAIT Arduino Workshop

Working with Arduinos@UQ is designed for secondary school students, and consists of a 3 hour workshop that allows the students to get a hands-on experience of wiring and programming an Arduino (Taken from UQ EAIT website)

### Story Bridge Climb

After learning about different aspects of engineering, there's no better way to experience a feat of structural design (and view the city skyline) than to climb the Story Bridge



### CSIRO QCAT Tour

Research is a vital aspect in the field of engineering, so students are taken on a trip to a CSIRO facility to look at the latest and greatest in the field of engineering research

### Kwan (Motivational speaker)

Inside all of us is the potential to be incredible, but sometimes we need a little nudge in the right direction to make us realise just how much we can achieve. Kwan lays the basis for students to self-reflect on their abilities and skills

### Spark Challenge

Teams of students must work together to travel around the campus, solving challenges and bringing together what they've learnt over the past week to successfully complete the activity

### Talent Show

Everyone has a hidden talent, so what better way to show it off than in Spark's very own talent show. From singing, dancing, slam poetry, and juggling – there's no limit to what students can present

### Social Disco

It's the end of the week, everyone's tired...but turn up the music and dance the night away. An opportunity for students to bust a move on the dancefloor, or chill out on the last night





## Partnership Engagement Day (Thursday 2<sup>nd</sup> July)

### Grad Panel

A panel of young engineers field student questions on their careers, university experience, and lessons learnt

### Mentor in a Minute

Senior engineers and researchers have a short time to introduce a small group of students to a topic of their choice: an exciting project, significant achievement or chosen field

### Engagement Dinner

Over a BBQ, students have the opportunity to meet and talk with engineers from different professions, and at different stages in their careers. A great opportunity for students to work on their networking skills

### Keynote Address

The keynote address is the feature event on the partnership engagement day. The presentation brings together speakers who all are able to share their wisdom and knowledge with the students



*List correct as of 20/04/15. Activities may be added, altered, or removed at any time.*

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