

CASE

CESSNOCK ACADEMY OF STEM EXCELLENCE



WORKSHOP

TEACHING STEM WITH LEGO MINDSTORMS

This workshop will provide teachers with the skills to confidently use Lego Mindstorms as an engaging platform to teach STEM to both Primary and Secondary students. The skills and concepts to be covered include:

- Coding
- Scaling and normalisation
- Real-world (imperfect) systems
- Multi-input control algorithms
- 3D design and modelling
- Mechanisms

We will be using the RoboCup Junior challenges (OnStage, Rescue and Soccer) as the framework to apply these concepts, we will also cover the techniques to assist students in tackling these challenges.

WORKSHOP PRESENTER

JASON FLOOD

With a background in Electrical Engineering in multiple countries and over 30 years in heavy industry, Jason has a comprehensive experience in applying the STEM disciplines. A challenge by his children's Primary School librarian to "Do something with these dusty robots" led him to develop a very successful and sustainable STEM programme at the school, and to reinstate the Hunter Region RoboCup Junior competition. In the 11 years since that challenge, he has run countless workshops for teachers and students in both Australia and Canada.



DATE | TIME

5th July 2018

8:30am - 4pm

Registration from 8:30am

VENUE

Cessnock High School

Aberdare Road

Cessnock

NSW 2325

COST

FREE

REGISTER ONLINE

lego_mindstorms.eventbrite.com.au

CONTACT

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