

## **Intermediate Robotics Workshop**

ShaunNykvist, DavidNutchey  
Queensland University of Technology, Brisbane  
s.nykvist@qut.edu.au

***Abstract:** Connecting STEM theory with authentic learning activities in the classroom can be a challenge for many educators. However, the use of LEGO robotics can provide opportunities for STEM educators to provide a more challenging and authentic environment for students. Hence, this intermediate workshop will provide practical hands-on experiences by exploring more complex mechanical structures and programming. Participants will engage in informal classroom challenges which combine building, programming and the development of strategies to improve their solutions. This workshop will introduce participants to the fundamentals of using sensors in their solutions.*

**Keywords:** LEGO Robotics, STEM, ICT