

# CODY CRIPPS

## UNDERGRADUATE MECHATRONICS STUDENT

### CONTACT INFO

Mobile: 0474 502 255

Email: codysmithcripps@outlook.com

### GENERAL INFO

Third-year Mechatronic Engineering Student at the Queensland University of Technology. Members of the QUT Dean's Scholars Program.

I aim to put my learned and practiced skills from coursework, projects and research experience, into action in a work environment. I am also seeking the opportunity to develop my technical aptitude.

### TECHNICAL SKILLS

- Python - Worked with robotic vision and data analysis (specifically for basic AI applications)
- C - Worked with embedded applications as well as systems level programming
- Matlab
- Circuit and PCB Design

### SOFT SKILLS

- Problem Solving
- Adaptability
- Communication
- Team Work
- Collaboration
- Leadership

### EDUCATION

#### Queensland University of Technology

Bachelor of Engineering (Mechatronics)  
2017 - Present

#### Gympie State High School

Certificate IV in Interactive Digital Media  
2015

Certificate II in Creative Industries (Media)  
2014

- Graduated with a Dux award for academic achievement.

### EXPERIENCE

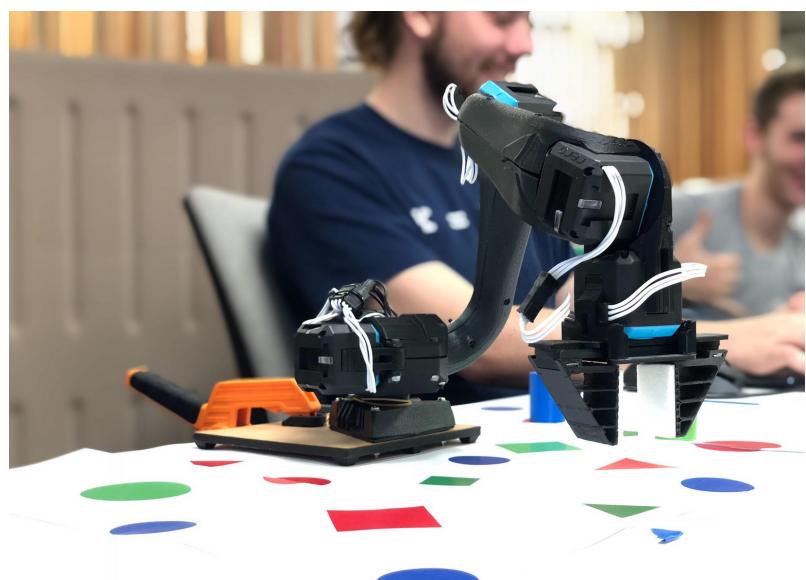
#### Vacation Research Assistant

Queensland University of Technology, Vacation Research Program, 2018-2019

#### QUT Arm Farm Project.

This project is ongoing and aims to develop a framework for parallel machine learning with an expandable bank of low cost robotic arms. This would allow for an acceleration in robotics development.

My role was to develop a controller for the robotic arms using Robotic Operating System (ROS) that could be used to simultaneously control and get feedback data from multiple robots.



The robotic arm used in the vacation research project with me in the background

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### EXPERIENCE CONTINUED

#### STEM Student Ambassador

QUT, Stem for Schools Program, 2017 - Present.

Working with this team I have had the opportunity to introduce students to world of science and technology, through facilitating workshops on topics such as autonomous vehicles and robotics. I have also developed resources for new workshops and professional development activities for teachers.

#### Robotics Assistant

Building Block Studio, 2019-Present

This role involves teaching computer skills and coding practice to school aged students, which has equipped me with a strong facilitation skill set and allowed me to develop strong interpersonal skills and patience with an appreciation for differences in knowledge levels and backgrounds.



Working at the "Power of Engineering" event to promote gender diversity in Engineering. (With QUT STEM for Schools and the women in engineering club at QUT).

### VOLUNTEER/LEADERSHIP EXPERIENCE

#### QUT Robotics Club

President for 2019

As the president of the QUT robotics club (QUTRC) I was involved in the organisation of the Droid Racing Challenge, a small sized autonomous vehicle competition, open to universities in Australia and New Zealand run by QUTRC. I also developed electrical systems for an omni directional robot base for the clubs robotic arms.

#### QUT Dean's Scholars Program

Since 2017

Through this QUT excellence program I have had the opportunity to take part in leadership and teamwork development programs.