



PROJECT BUCEPHALUS

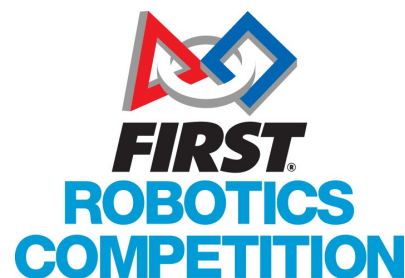
Project Bucephalus has been representing *FIRST*[®] in Wollongong since 2010. Named after the warhorse of Alexander the Great, the group has years of experience running robotics activities for children in the Illawarra, Shoalhaven, and Sydney areas. Project Bucephalus now consists of two separate *FIRST*[®] teams:

The *FIRST*[®] LEGO[®] League (FLL) team has been active since 2010, and is made up of home-schooled children aged 9-16. The team were dubbed Australian FLL National Champions in 2010, 2014 and 2016, and have gone on to represent Australia at the International level in the Netherlands (2011), United States (2012), Australia (2013), Canada (2014), United States (2015), Australia (2016) and Denmark (2017). The team is responsible for the creation and mentoring of FLL teams around the world, and is currently competing in the 2017/18 FLL Season: "Hydro Dynamics".

Project Bucephalus founded a *FIRST*[®] Robotics Competition (FRC) team in 2016. Team #5985 is made up of high-school students from Wollongong and beyond. Team is currently competing in "STEAMWorks" - the 2017 FRC Challenge.

There are limited places at each camp so please register early!

Please visit our website for more information:



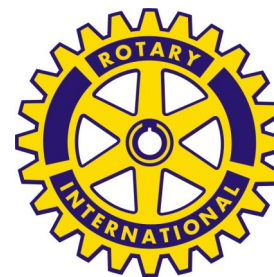
GIRLS are welcome too!

Female students can engineer and program just as well as any male student. Feel free to join in!

Project Bucephalus would like to thank our sponsors.



UNIVERSITY OF WOLLONGONG AUSTRALIA



Rotary Club of Corrimal

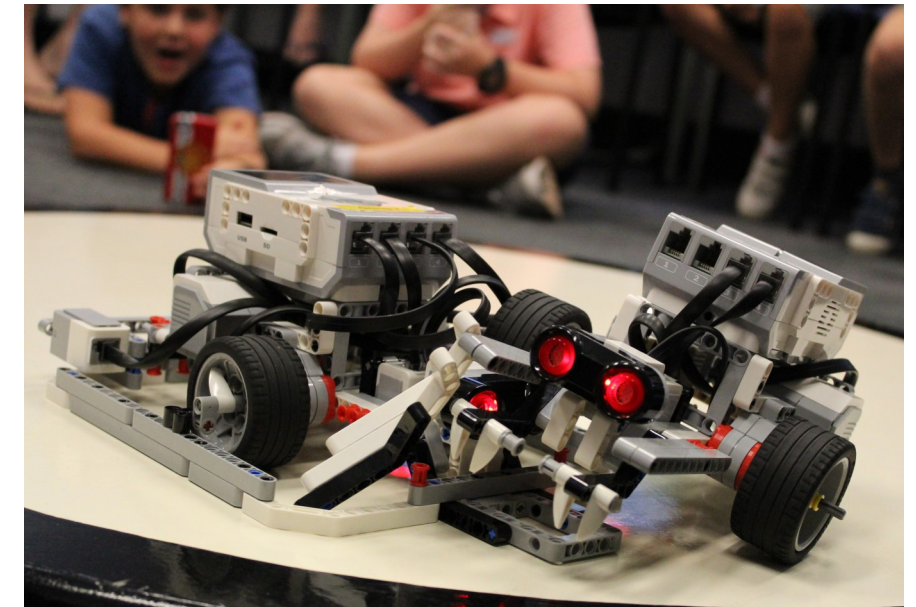
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PROJECT BUCEPHALUS

Robo Camp

September 2017



Bring LEGO[®] to Life!

Discover LEGO[®] MINDSTORMS[®] Robotics and build models that move and think on their own – and have a lot of fun in the process!

September 2017 Workshops

Workshop #1: Intro to MINDSTORMS® (UOW Wollongong)

Date: 25th and 26th September 2017 (Mon– Tues)

Cost: \$135 (Inc. GST) **Time:** 9 am to 3 pm

This our standard beginner course where students are introduced to LEGO® MINDSTORMS®. Learning the basics of robotics and programming as they build robots capable of reacting to their environment and making simple decisions. The second day of the workshop finishes with the ever-popular “Robot Sumo” challenge and a tournament where all families are welcome. No previous experience is required. While the activity is designed to be suitable for ages 7 and up, we will accept younger students if they are accompanied by an adult.

Workshop #2: Sumo Supreme (UOW Wollongong)

Date: 25th and 26th September 2017 (Mon– Tues)

Cost: \$165 (Inc. GST) **Time:** 9 am to 3 pm

3...2...1...FIGHT! Students will take Robot Sumo to all-new levels as they create Robot Sumo warriors of advanced intelligence and function, and then battle against each other. In this event, humans play a vital role – from anticipating an opponent’s actions to directly pitting human against machine, with human operators directly controlling their creation against autonomous opponents. This is designed for students already familiar with LEGO® MINDSTORMS® – or novices able to cope with a steep learning curve! While the activity is designed to be suitable for ages 7 and up, we will accept younger students if they are accompanied by an adult.

Workshop #3: Intro to MINDSTORMS® (UOW Shoalhaven)

Date: 28th and 29th September 2017 (Thurs-Fri)

Cost: \$135 (Inc. GST) **Time:** 10am to 4pm

See Workshop #1 for course description

Workshop #4: Sumo Supreme (UOW Shoalhaven)

Date: 28th and 29th September 2017 (Thurs-Fri)

Cost: \$165 (Inc. GST) **Time:** 10am to 4pm

See Workshop #2 for course description.

Workshop #5: FLL Experience (Ulladulla High School)

Date: 5th and 6th October 2017 (Thurs-Fri)

Cost: \$165 (Inc. GST) **Time:** 10 am to 4 pm

This is a course designed for FLL Teams and those that want to get a taste of the *FIRST* LEGO League! It is designed for those with some existing MINDSTORMS® experience, but is suitable for all skill levels. Under the guidance of the Project Bucephalus team members, students will design, build and program robots to attempt the challenges of [Hydro Dynamics](#). While the activity is designed to be suitable for ages 7 and up, we will accept younger students if they are accompanied by an adult.

Note: Coaches of active FLL teams can attend without charge. Please note there is a maximum of 2-person-per-robot.

FLL Teams may be asked to share their field kit. Coaches are advised to attend for at least part of the event so instructors are briefed on what the team needs to achieve!

REGISTRATION FORM (Part 1)

1) Please CIRCLE the camp you wish to attend.

#1 Introduction (Wollongong) \$135 25th-26th Sep

#2 Sumo Supreme (Wollongong) \$165 25th-26th Sep

#3 Introduction (Shoalhaven) \$135 28th-29th Sep

#4 Sumo Supreme (Shoalhaven) \$165 28th-29th Sep

#5 FLL Experience (Ulladulla) \$165 5th –6th Oct

2) Equipment/Experience

Do you have previous MINDSTORMS® experience? **Y/N**

Will you supply your own equipment?* **Y/N**

*discounts may apply to those bringing their own MINDSTORMS® Kits

3) Student Details

Child's Name: _____

DOB: ___ / ___ / ___ Gender: _____ School Year: _____

Address: _____

_____ P/Code: _____

Parent's/Carer's Name: _____

Ph: _____ Mobile: _____

Email: _____

Emergency Contact Name: _____

Phone: _____

Describe any allergies, current medication, or learning difficulties. (Attach sheet with more details if necessary):

During workshops, photos will be taken of robots and activities.

Students may appear incidentally in these images, but they won't be identified. Additionally, a class photo will be taken at the end of the workshop. This will be used for team records only.

Write “No Photos” here if you do **NOT** want your child photographed at all: _____

REGISTRATION FORM (Part 2)

4) Permission

My signature below indicates my willingness to permit my child to participate in all Robo Camp activities organised by Project Bucephalus. In addition:

A. In case of an emergency, I hereby give permission for the doctor chosen by the head coach or other supervising persons to secure proper treatment for my child as named.

B. I understand that every effort will be made to contact me in the event of an emergency.

Signature: _____ Date: ___ / ___ / ___

Note: Information on this form may be stored on our database .

More Robo Camp information can be found at:

www.projectb.net.au

Important Notes:

- **Enquire if places are available BEFORE sending registration/payment! Email coach@projectb.net.au or visit www.projectb.net.au/robo-camp/enquire-now/**

- **Registration is NOT complete until Registration and Payment are received. Registration must be completed prior to the Workshop.**

- **Preferred Payment Methods:** Direct Debit or Cheque

- **Bank Details:**

Account Name: Project Bucephalus

BSB: 637 000 Account Number: 716448967

Please add Description: “RoboCamp: [CHILD NAME]”

- **Cheques:**

Payable to: Project Bucephalus

Mail to: Project Bucephalus Robo Camp

PO Box 485

DAPTO 2530