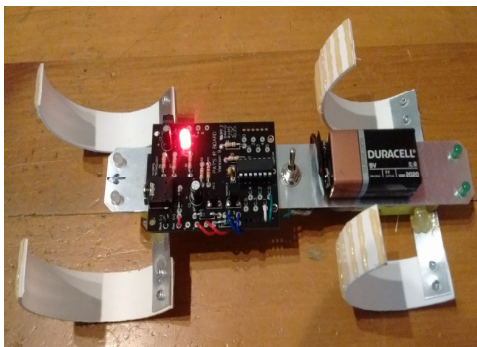


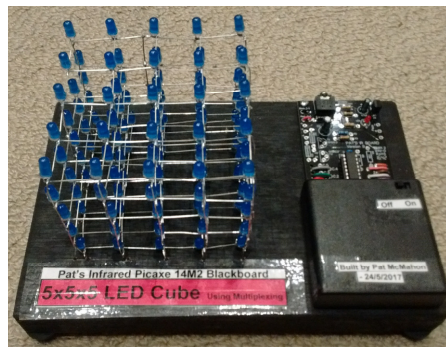
# Build your own Infrared Remote Controlled STEaM Project ReCycloBot, 5x5x5 LED Cube or 25 LED Light Bar.

—DATTA Vic Workshop , 15th August 2018, at Hoppers Crossing Secondary College.

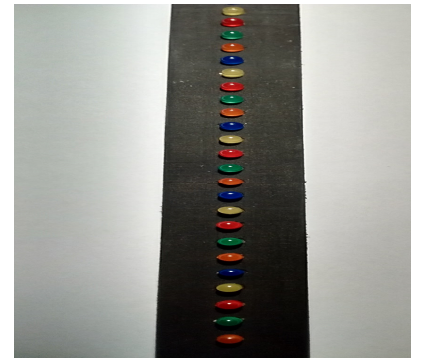
## ReCycloBot



## 5x5x5 Cube



## 25 LED Light Bar



You choose 1 on the day, to construct from 3 of Pat's latest Projects  
an Infrared Remote Controlled

ReCycloBot (Twin Motors), 5x5x5 LED Cube (125 LED's)  
or 25 Coloured LED Addressable Light Bar.

When – Wednesday 15th , August, 2018, Hoppers Crossing Secondary College, 9 am to 3 pm.

Where - Hoppers Crossing Secondary College, 2 Fraser St Hoppers Crossing, Vic 3029.

Hoppers Crossing Secondary College, 2 Fraser St, Hoppers Crossing. - Melways reference 202-G11

Morning Tea & Lunch provided.

Presenter - Pat McMahon

Design Brief- Participants will select, construct, test, program and take away their own Universal Remote Infrared Controlled, exciting STEaM Model of their own choice, a **ReCycloBot, 5x5x5 LED Cube or 25 LED Light Bar .**

The day will be broken up into simple stages to cater for participants of different entry levels, with testing jigs available to check the operation & to diagnose any faults.

We will use Pat's 14M2 Picaxe microcontroller on the day for simplicity of Coding ( BASIC) and because of its wide range of capabilities. Without any modification it will run off 4.5, 6 or 9 Volt battery packs. The one Microcontroller will run from a Universal Infrared Remote, Robots – Forward, left & Right, Pneumatics, 5 Servo Motors & 5DC Motors in 10 directions, OLED Displays, Play Music from 10,000 plus possible Tunes, run 25 Addressable LED's, over 400 LED's at one time, etc. You may decide to later use another suitable and capable microcontroller of your choice, to run your model back at school.

Pat has lots of Handouts and over 30 other applications to view on display, including his latest developments. His Infrared Controlled "Sports Action 25 LED Projects" for Basketball, Cricket and Table Tennis, his Infrared Controlled Hexapod etc. Please feel free, prior to the Workshop to give Pat a ring on 0413- 305 092, if you have any questions or concerns about the workshop.