Meet Violet

Powered By
The STEAM Engine Co.

About Us

The STEAM Engine Co. is a new startup consisting of a team of Engineering students who are passionate about creating and designing solutions to world problems.

We are working towards a future where every child is empowered to realise their potential to change the world through STEAM (Science, Technology, Engineering, Arts & Mathematics).

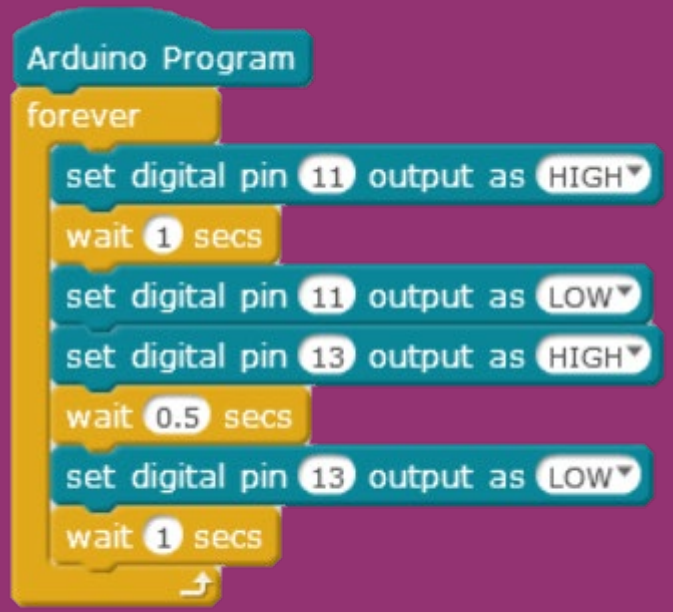
Our first module, 'Violet' is a cost-effective and hackable robot to teach coding in Australian schools.

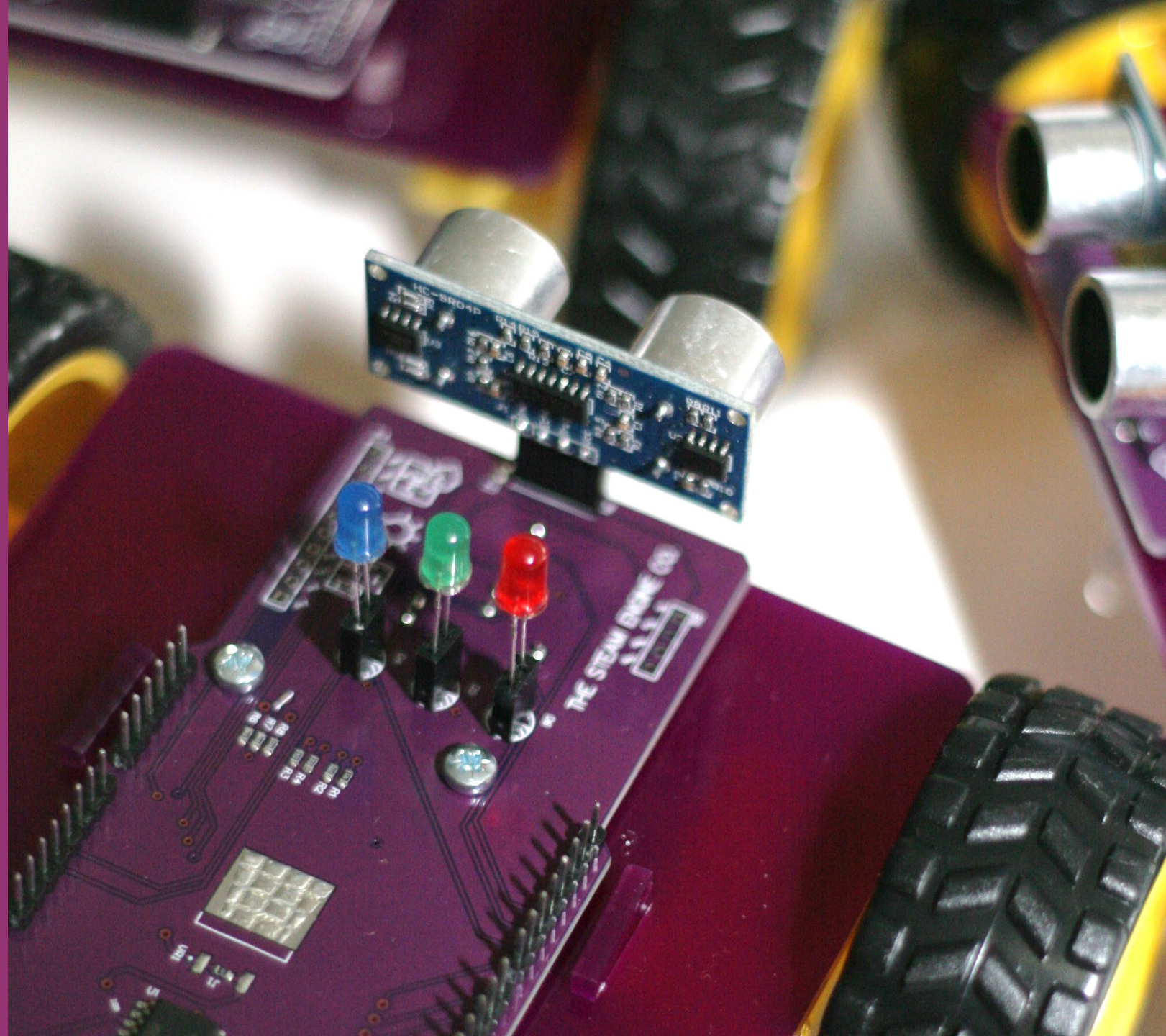
The Kit

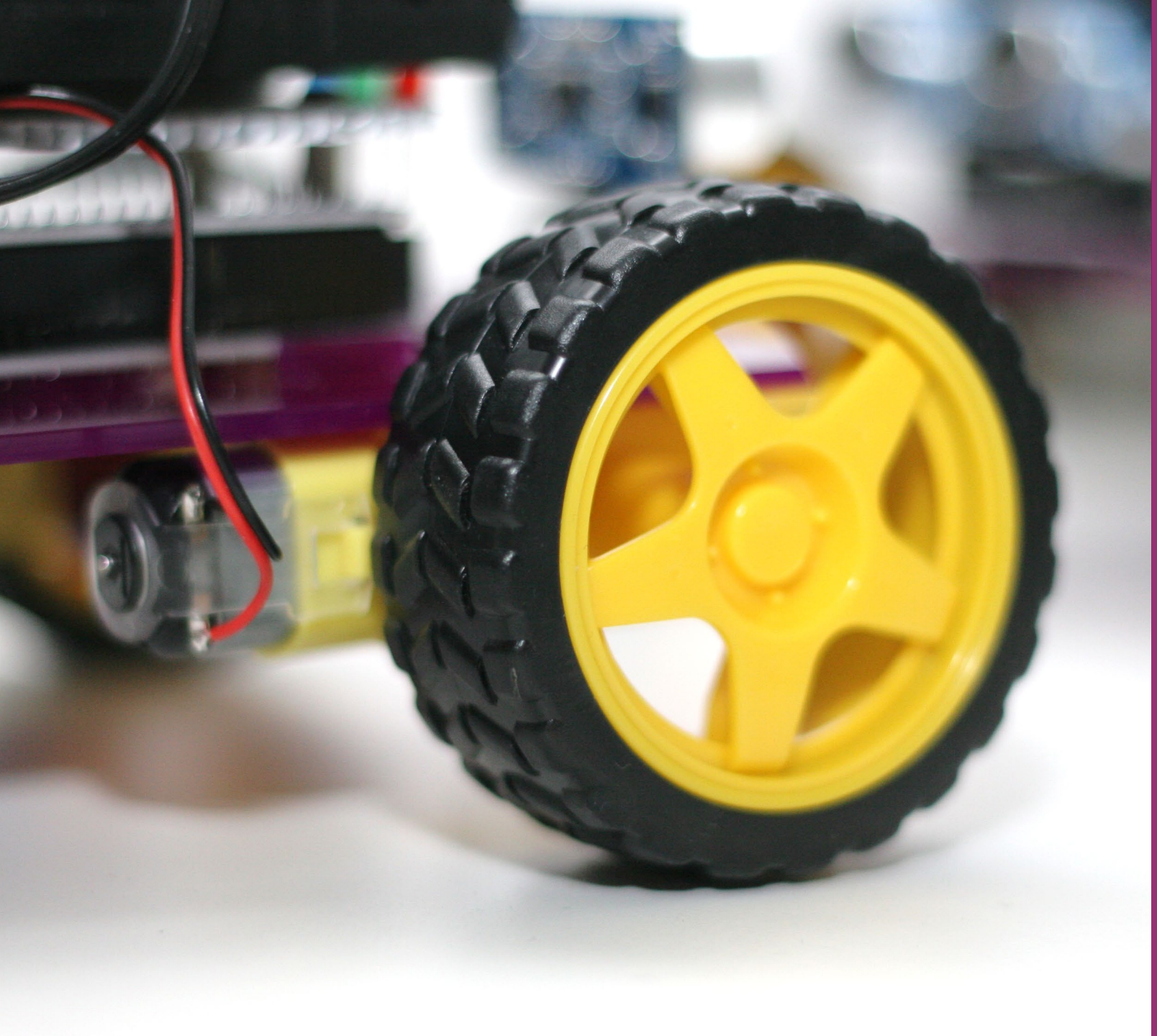
LEDs

Students will learn:

- Sequential Programming
- Pattern Recognition
- Basic Electric Circuit Knowledge



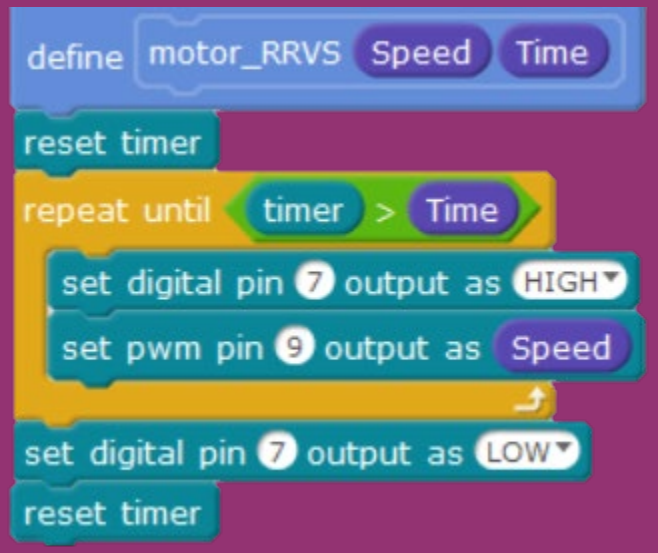




Motors/Wheels

Students will learn:

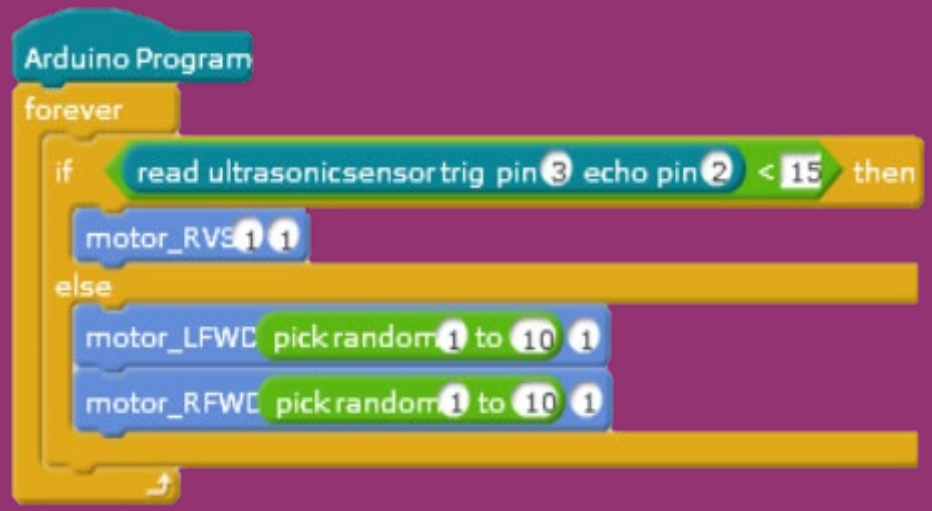
- Sequential Programming
- Conditional Programming
- For Statements
- Spatial Awareness
- Trial & Error
- Math/Physics
  - I.e. Distance = Speed x Time

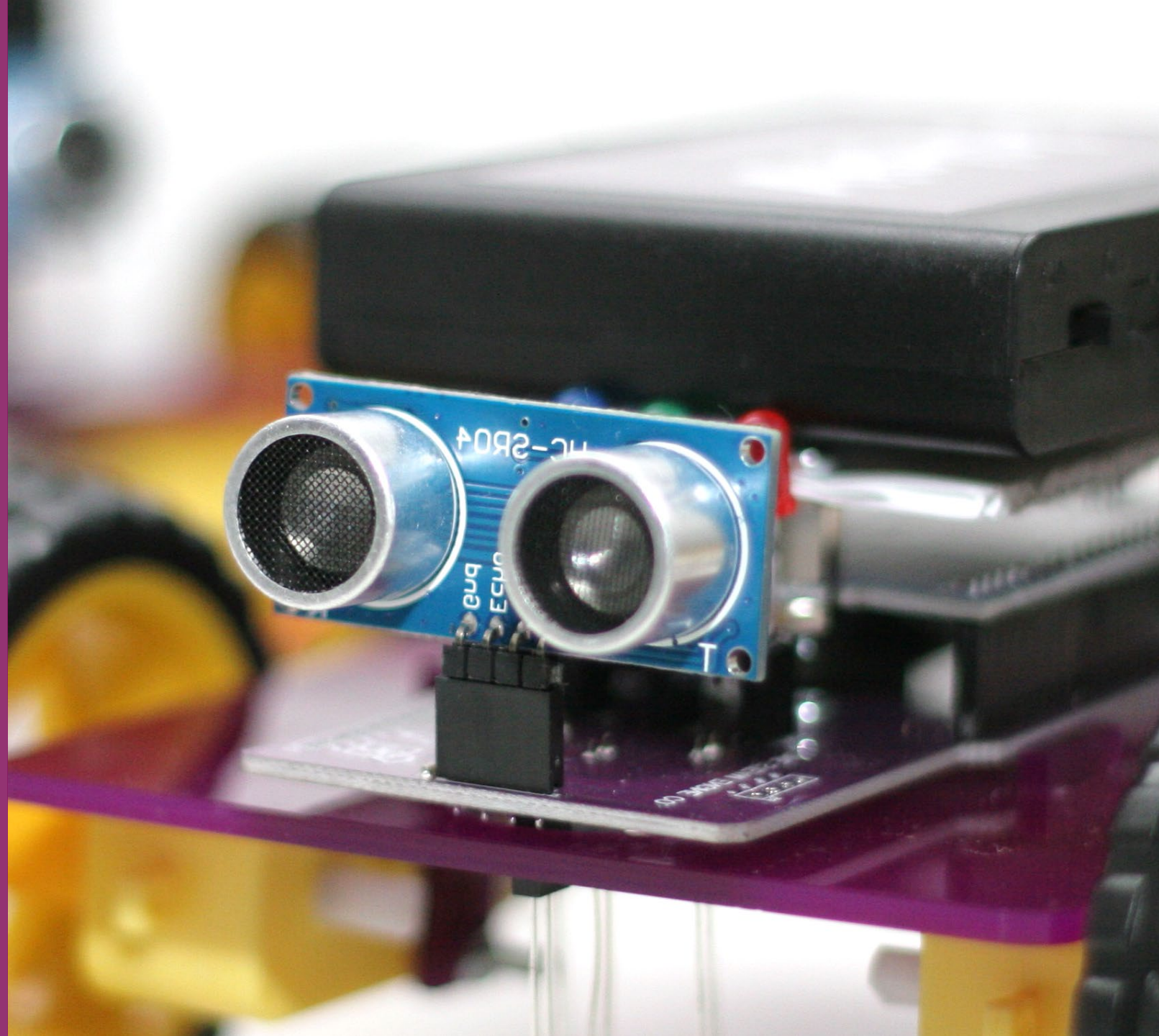


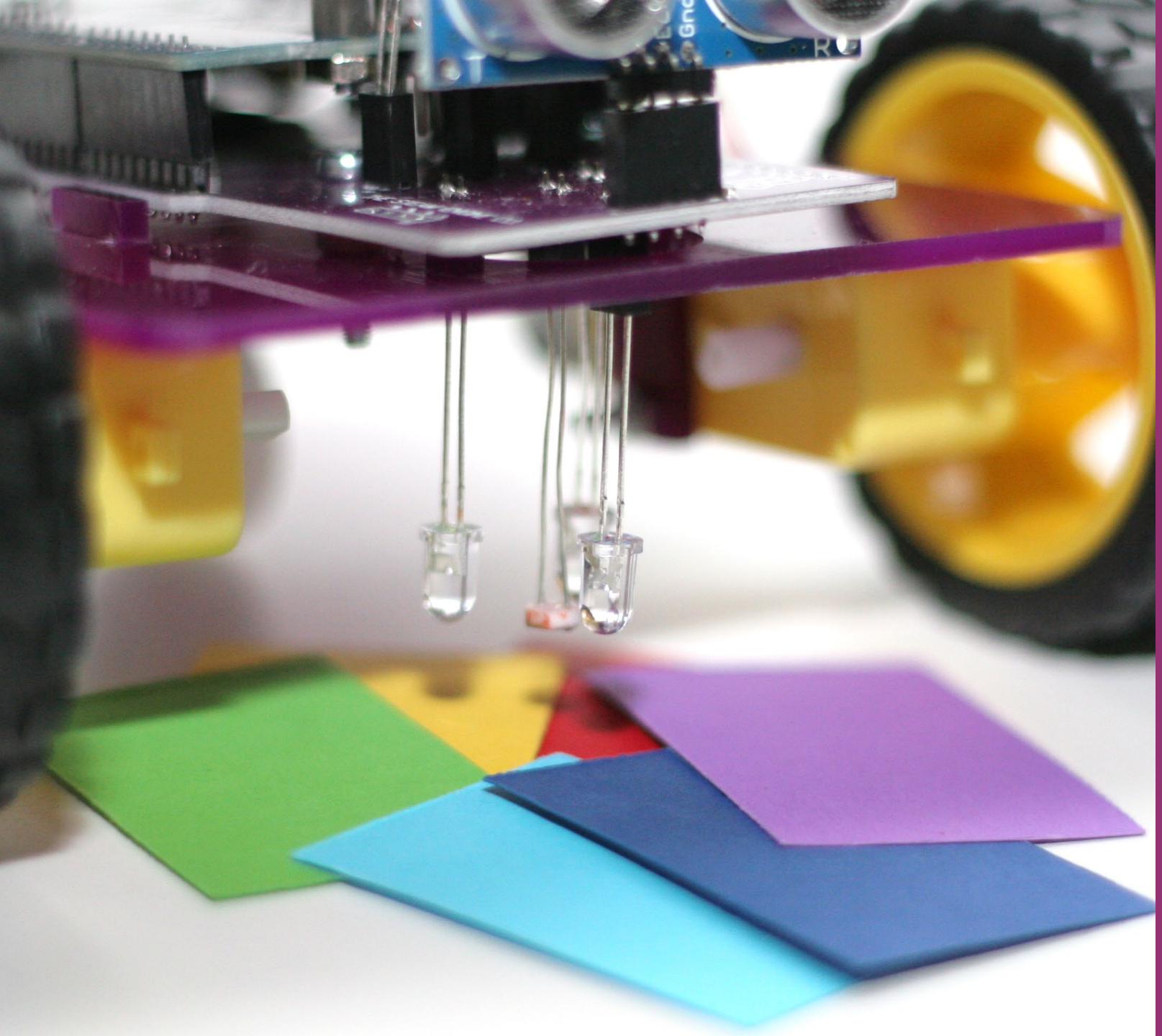
Ultrasonic Sensor

Students will learn:

- Conditional Programming
  - Object Avoidance
  - Object Detection
- If/Else Statements
- Math
  - I.e. Calculating the equation for distance detected by the ultrasonic sensor



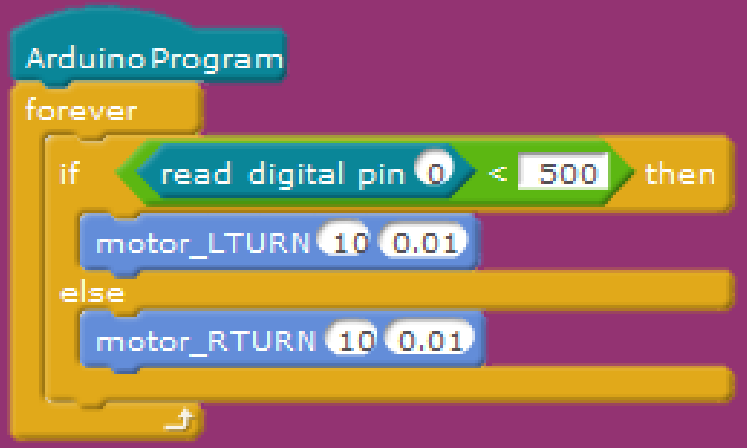




Colour Sensor

Students will learn:

- Conditional Programming
  - Colour Sensor Calibration
  - Colour Detection (RGBCMYKW)
  - Line Following
- Physics:
  - I.e. Light Frequency
- Math:
  - I.e. Distinguishing between colour ranges



Learning Outcomes

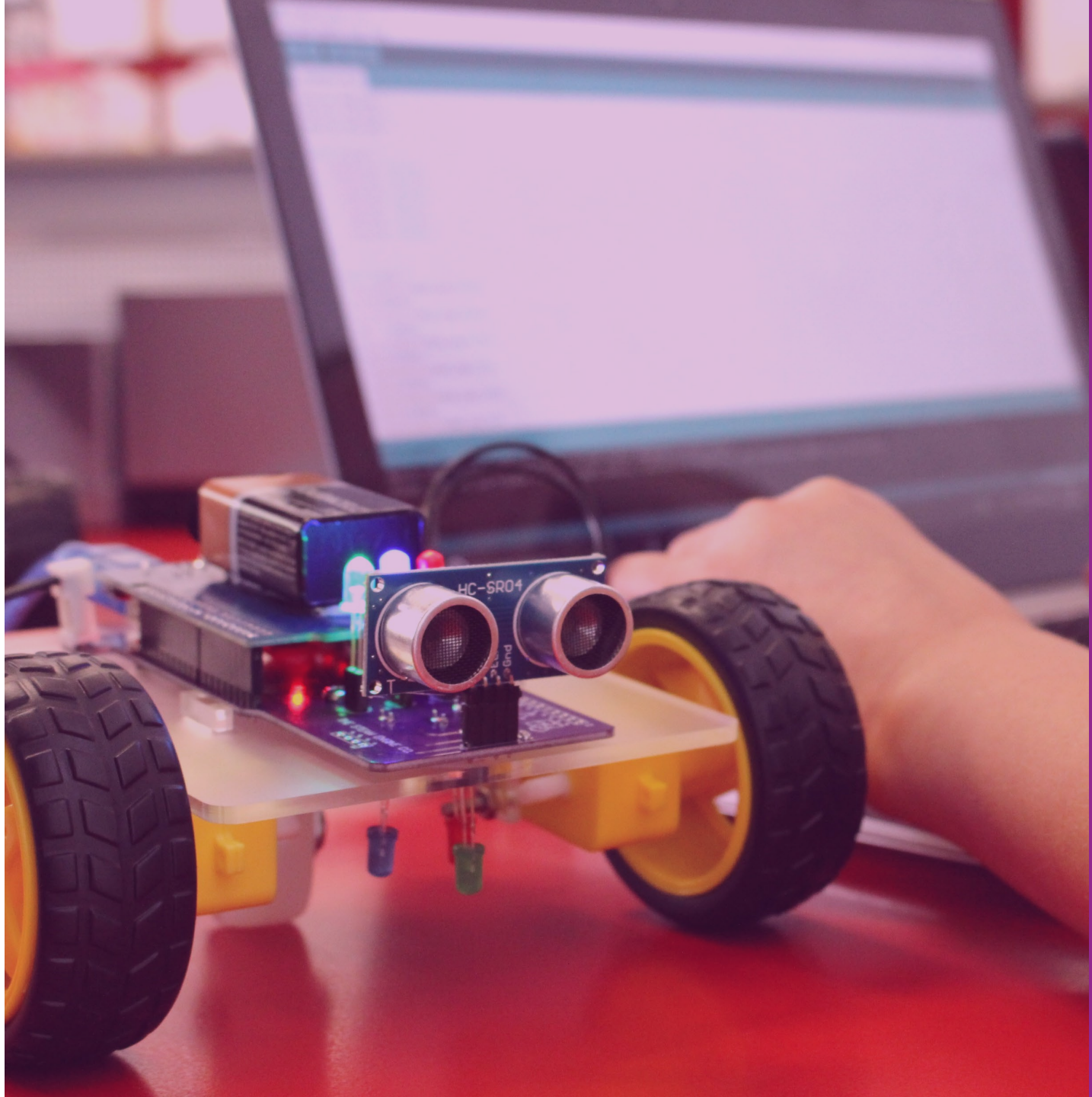
Digital Literacy

Digital Technology Curriculum

Learning Outcome Examples:

- ACTDIP019
- ACTDIP029
- ACTDIP030

Violet's primary purpose is to ensure students meet the Digital Technologies requirements in an **engaging** and **cost-effective** way.



ENTERPRISE SKILLS

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Problem Solving

Build Violet

Students will be required to solve the Violet build with nothing but 360° Images of a built Violet.

Design Violet

The final part for Violet's build will require students to create their own design solution.

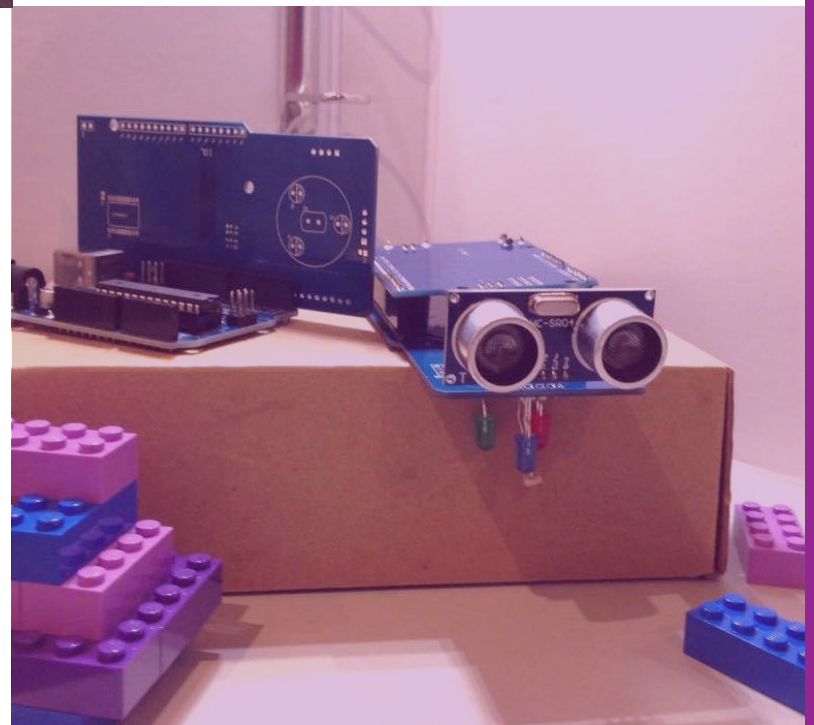
Code Violet

With the use of Violet's colour sensor, ultrasonic sensor, motors and LEDs, students will learn to code.

Teamwork

Creativity + Innovation

Communication



ENTERPRISE SKILLS

For More Info

www.thesteamengineco.com