

Onsite



Hi-Tech Hospital

Industry Alignment

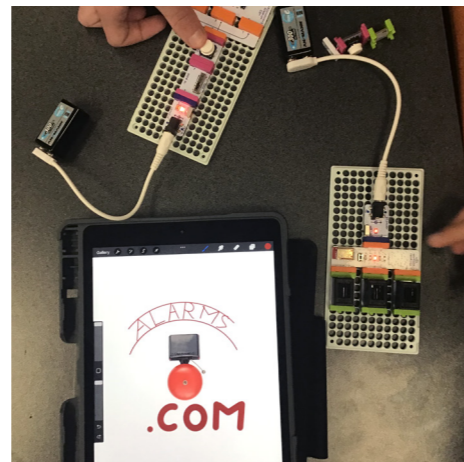
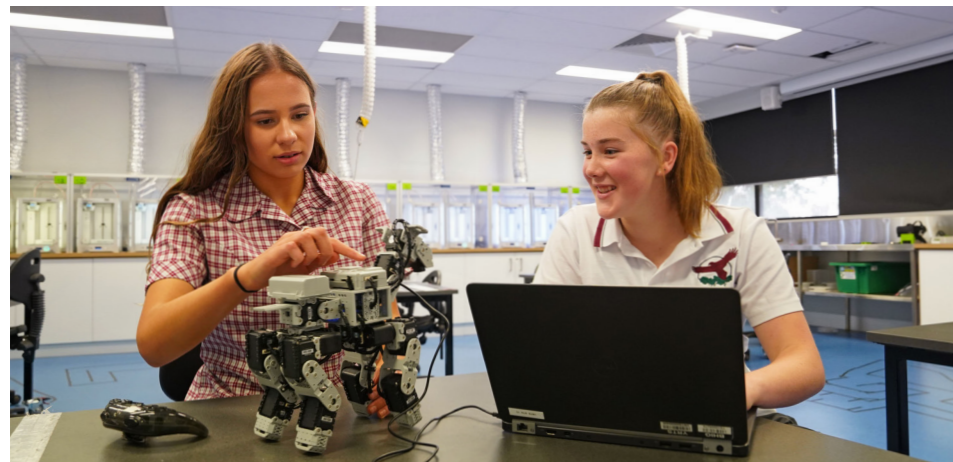
Students will be exposed to technologies and processes used in:

- Electronics
- Programming
- Robotics
- Health Services
- Telecommunications

Curriculum Areas Covered

Tech		English		Arts			Humanities			Capabilities							
Science	Design & Technologies	English	EAL	Dance	Drama	Media Arts	Music	Visual Arts	Visual Comm & Design	Civics & Citizenship	Economics & Business	Geography	History	Critical & Creative Thinking	Ethical	Intercultural	Personal & Social
	Digital Technologies	Health & Physical Education															

Student Work



Duration

This program can be undertaken on consecutive days or spread over a term.

2 days at Yarra Ranges Tech School.

Curriculum Level

This program is suitable for students from level 7 or level 8.

Over 2 days students are challenged to think about the hospital of the future and how technology can improve efficiency in hospital's operations and boost patient morale.

Students will learn about the systems behind such technologies and how they operate using programming techniques. Teams of students are introduced to robotics, coding and electronics and then apply their learned knowledge to develop their solution to the challenge.

Key Learning Objectives

- To gain understanding of sequential commands
- To understand electrical circuits
- To use electronics to prototype assistive technology
- To understand the mechanics of robots
- To gain an understanding of emerging medical technology

Technologies Introduced

Students will develop knowledge and skills in:

- Robotics
- Circuitry
- Coding
- Electronics
- Coding
- Electronics





Structure of the two days – Day 1

S1	Hi-Tech Hospital & Design Thinking overview Choose case study & define problem	L	Lunch
B	Break	S3	Tech workshop – littleBits Assistive Generate ideas Assess ideas
S2	Tech workshop – Robotis	D	Depart

Structure of the two days – Day 2

S1	Review of Day 1 Prototype & test	L	Lunch
B	Break	S3	Pitch – Presentation Pack up & survey
S2	Prototype & test Pitch – What is it?	D	Depart