An international, student-run organisation introducing young women to engineering and technology

Marita Cheng

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At the Engineering Link Project
WHAT IS ENGINEERING?

Aerospace

Transport

Electric hybrid cars.

Wind turbines

Electricity generation

Solar panels

Mobile phones

Ships

Robots

Mechanical Engineering

Automation

Electricity

Cell phones

Space shuttles

Satellites

Left Brakes

Lettuce
An international, student-run organisation introducing young women to engineering and technology.
Robogals

An international, student-run organisation introducing young women to engineering and technology
SINE = Seminars Inducting New Executive Committees
Largest Robot Dance World Record Attempt

29 September
12 noon - 1:30pm

Melbourne University
South Lawn

Raffles
BBQ
DJ

robogals.org.au/dance
The Project on Channel 10
The robots are taking over

Ama Singleton (aka Robot Girl) pulls some moves as she gets ready to join hundreds of Melbourne University Robogals for their bid to smash the Guinness World Record for the Largest Robot dance. The event kicks off at the university's south lawn from noon tomorrow with up to 1000 people expected to take part. Visit robogals.org.au/dance. Picture: NICOLE CLEARY
Robots take over society as we know it

Life-size robots will invade Wynyard Park until Saturday as part of an art exhibition by student group Robogals that creates robots showing the impact of technology on society. Robogals increases female participation in engineering, science and technology. Picture: CHRIS PAVLICH
Robogals @ University of Queensland
An international, student-run organisation introducing young women to engineering and technology.
Robogals Science Challenge

First place

Marianne Hanna

Marianne finds germs in machines

Sandeep, Loughborough University, England, UK
2014 Science Challenge Major Challenge

Vote for your Crowd Favourite!

Submit your Major Challenge!

Come up with an exciting and interesting experiment and explain it with a short video for the final stage of the Robogals Science Challenge.

Congratulations to winners of the 2013 Science Challenge

View winning entries

View all 2013 submissions

Subscribe to newsletters and updates

Email Address

First Name
SINE = Seminars Inducting New Executive Committees
Girls taught in robotics workshops

- 2008: 135
- 2009: 66
- 2010: 799
- 2011: 2384
- 2012: 3404
- 2013: 8485.5
- 2014: 11914

* as at Dec 1, 2014
Al Quirinale

Alberto Rizzoli e l’app che «vede»

Il presidente della Repubblica Sergio Mattarella ha ricevuto al Colle Alberto Rizzoli e Marita Cheng (nella foto con il capo dello Stato), che gli hanno presentato «Aipoly», l’app di loro creazione che consente ai non vedenti (per i quali è disponibile gratis) di ascoltare la descrizione audio degli oggetti presenti in foto scattate da smartphone.
Aipoly speaks out loud what it sees

Identifies in real time

Identifies hundreds of colors

flower

labrador

warm purple
The Trevi Fountain (Italian: Fontana di Trevi) is a fountain in the Trevi district in Rome, Italy, designed by Italian architect Nicola Salvi and completed by Pietro Bracci. Standing 26.3 metres (86 ft) high and 49.15...
アウグストゥス像

ローマ帝政の創設者であり、ローマ帝国初期のローマ帝国を治める大切な人物です。ローマ帝国は27世紀から支配し、14世紀に亡くなるまで支配を支えました。
Local User Authentication

Store Activity Recognition

All-product tracking
AI trained to identify any object in real time
AI learns to name specific items and counts inventory
AI identifies people, their activity, and items used.
Tracks people as they move around the store - even if they try to hide
Healthcare

• Specialists may consult remotely in hospitals or at home
• Specialists may consult with GPs
• Eldercare
• Disability care
• Kids in hospital may go to school
• Patients in rehabilitation may work remotely
• Teleport shipped unassembled for kids to put together and learn STEM and programming
• Remote STEM teaching in rural areas
• Classroom cultural exchange
• Visit museums
• CEO/ manager/ employee out of office or interstate could continue going to work
• Telecommuting
• Employees of companies with multiple offices can collaborate more easily
Use cases

Corporate
Healthcare
Presentations
Museums
Rehabilitation
Security
Why now
10.1" FHD IPS LCD (1920x1200) Display

6 hour battery life when driving.

Ultrasonic sensors prevent hitting obstacles and items.

Wide-angle lens to view over 120 degrees.

Raise and lower robot height remotely.

Dual cameras to see forwards and downwards simultaneously.

Web control interface allows Teleporting in from any computer, right from the browser.

Loud speaker to match human resonance.
Control interface
Android Control

Teleport

Login
Username
Password

Teleport

Personal Teleports

Warehouse
Front desk
Available
67%

Office
Back room
Available
67%

Android Control
Customers

- Questacon
- ACMI
- Telstra
- FYA
- CanTeen
- Home security
- Coworking space
- Companies with multiple offices
- Busy CEOS
- Eldercare
Brain Control

VR Head

All-terrain Base

V2 Head

VS Head

Robot arm
V2
VR
VS
GENERAL

Sounds

Anonymous Usage Data Collection

Usage Timer 9 minutes, 27 seconds

Support Tools

CONTROLS

Interface Joystick

Layout Square

Top View

Enabling 'Top View' swaps the in / out and up / down buttons.

ARM SPEED

Movement

Rotation

Gripper

Reset to Defaults
<table>
<thead>
<tr>
<th>Close door</th>
<th>Open door</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open door</td>
<td></td>
</tr>
<tr>
<td>Put on hat</td>
<td></td>
</tr>
<tr>
<td>Shave - left side</td>
<td></td>
</tr>
<tr>
<td>Shave - right side</td>
<td></td>
</tr>
</tbody>
</table>

Size:
- 3 poses

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Notes:
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