Jake Coppinger

jake@jakecoppinger.com
jakecoppinger.com

Current October 2015

Presented at TEDxSydney 2014
Represented Australia at Intel International
Science & Engineering Fair
Year 12 student

about

I am a Year 12 student at Gungahlin College, Canberra, and I am passionate about designing and creating new technologies which can transform the world. Next year I am looking to study Computer Science at university to pursue my passion. My hobbies include playing the violin as well as performing with a local orchestra. I am a fast, self motivated learner as well as a creative problem solver, and I take pride in the way I communicate my work through web design, graphic design and film.

work experience placements

ANU Computational Biophysics
Designed and developed a website for the research team at ANU Computation Biophysics, http://biology.anu.edu.au/hosted_sites/langevin/

ABB Australia
Wrote, directed and produced short internal film to profile long term team member & presented my gesture recognition research work

Razorfish Australia
Learned about digital marketing and emerging technologies

ScreenACT
Designed and produced the new animated logo design for the ACT Screen Industry Association

Australian Signals Directorate
Learned about the ethical and technical aspects of modern-day intelligence agencies

skills

Public Speaking & Technology Communication

TEDxSydney, Intel ISEF, CSIRO Discovery Centre, Razorfish Australia, many TV / print appearances (see next page)

Programming & Electronics
Computer programming: Python, C, C#, HTML, CSS, JavaScript, Processing, Arduino

Human-computer gesture interaction research with Swirlesque (jakecoppinger.com/project/swirlesque)

Analog & digital electronics theory, design & PCB fabrication

Mechatronic systems & IOT devices with Arduino and single board Linux computers, analog + digital electronics

Experience with Linux, OSX, Windows, Android, iOS

Design, Film, & Special Effects

3D modelling & 3D printing with Blender

Graphic design with Photoshop/Illustrator/InDesign

Experience with all aspects of filmmaking - Cinematography, DSLR operation, post production with Premiere, After Effects, YouTube publishing & ad monetisation

education

Orana Stenier School - Kindergardern to Year 9

Gungahlin College, Science Mathematics & Related Technologies program (selective) - Year 10

Gungahlin College - Year 11 to 12

references

Reference contacts will be provided upon request.

jake@jakecoppinger.com
jakecoppinger.com

See my TEDxSydney talk, technology products,
portfolio of short films and media appearances at
jakecoppinger.com

achievements

2015
Distinction - UNSW ProgComp (team GNGCTeam1)

Participation and Prize for Outstanding Group Project
Work - National Computer Science School 2015
(University of Sydney)

Best Film - The Engineering Process, ReelACT 2015

Best Music Video - Dark Matter, ReelACT 2015

2014
Speaker at TEDxSydney 2014 (largest worldwide TEDx
conference)

Third Place (Engineering) - BHP Billiton Science and
Engineering Awards 2014 (Project Title: "Swirlesque: A
new form of human-computer interaction")

Finalist - Intel Science and Engineering Fair 2014 -
"Swirlesque" (Australian team) (Los Angeles)

Electronics Award - University of Wollongong Year 11
ACT STEM Competition 2013

Participation and Student of the Week Award - Honeywell
Engineering Summer School 2014

High Distinction - Big Science Competition 2014
(International competition)

High Distinction - NCSS Challenge Advanced Python
2014

Finalist - The Australian Innovation Challenge 2014

 Filmed and produced internal film, ABB Australia
(Robotics Division) 2014

2013
Gold award - CSIRO CREST (Swirlesque) 2013

Top Scorer (High Distinction) - Big Science Competition
2013 (International competition)

Electronics Award - University of Wollongong Year 11
ACT STEM Competition 2013 (Year 10 student)

Third Place - Frame Your Physics 2013

Shortlisted Film - Collision 2013

Developed website for research team at ANU
Computational Biophysics, 2013 http://biology.anu.edu.
au/hosted_sites/langevin/

2012
Top Scorer (High Distinction) - NCSS Challenge 2012
(Intermediate Python)

High Distinction - Big Science Competition 2012
(International competition)

Distinction - Australian Informatics Competition 2012

2011
Top Scorer (High Distinction) - NCSS Challenge 2011
(Embedded)

media appearances

TEDxSydney, 4/6/14 - How I learned to improve
technology: Jake Coppinger at TEDxSydney 2014
https://www.youtube.com/watch?v=vtvcRfo887Y

The Wharton School, University of Pennsylvania, 15/8/14
- An Intelligent Glove, a Smartphone App and a Teen's
Perspective on What's Missing in School

http://kwhs.wharton.upenn.edu/2014/08/intelligent-glove-
smartphone-app-teens-perspective-whats-missing-
classroom/

Christine Long (The Sydney Morning Herald, The
Canberra Times), 21/12/14 - You'll never look at an iPhone
the same

http://www.smh.com.au/small-business/smallbiz-tech/
youll-never-look-at-an-iphone-the-same-20141215-
127ubw.html

http://www.canberratimes.com.au/small-business/
smallbiz-tech/youll-never-look-at-an-iphone-the-same-
20141215-127ubw

ABC News; ABC News 24, 8/3/14 - Jake Coppinger on
ABC News (Swirlesque report)

https://www.youtube.com/watch?v=9PwltXKtkKk

ABC 7:30 Report, 4/4/14 - Jake Coppinger on 7:30 Report
with Chris Kimball

https://www.youtube.com/watch?v=Tb1UAHiXuHc

Channel Ten (Wake Up), 29/4/14 - Jake the Genius: The
17 year old with the Intelligent Hand

https://www.youtube.com/watch?v=pmZNDREPOIw

7 News, 18/5/14 - Australia at Intel International Science
and Engineering Fair (ISEF) 2014

https://www.youtube.com/watch?v=8vt5k36GJIM

Cheryl Jones, (The Australian), 18/9/14 - Little gesture
may eradicate clicks and taps

http://www.theaustralian.com.au/innovationchallenge/
little-gesture-may-eradicate-clicks-and-taps/story-
fnj8drpe-1227094107331

Neha Karl (CSIRO), 7/3/14 - Power glove

https://blogs.csiro.au/helix/power-glove/

TEDxSydney, 24/7/14 - In Conversation with Jake
Coppinger Outside The Studio

https://www.youtube.com/watch?v=UJ3egFR3yKo