

Alastair Donnelley

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EDUCATION

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DEGREE: Bachelor of Engineering (Mechanical, Advanced), University of Sydney.

RESULTS:

First Class Honours and the University Medal.

AWARDS:

• Dean's List of Excellence in Academic Performance

2014, 2015, 2016.

University of Sydney Academic Merit Prize

2014, 2015, 2016.

Grahame Mechanical Engineering Senior Scholarship
 Grahame Brize

2015. 2016.

Grahame Prize First in Advanced Engineering Extension subject

2013, 2014, 2015, 2016.

PROJECTS I INITIATED AND LED:

Designed system to recycle plastic bottles into corrugated roofing in developing countries.

• Pitched plan for business to inform consumers of the carbon footprint of their weekly shop, and programmed and demonstrated a proof-of-concept Android app & web ecosystem to do so.

 Designed, programmed and deployed suite of web-based games aimed at introducing highschool students to concept of Emergent Systems — adopted by USYD School Outreach Program.

• Coordinated a student consultancy project resulting in an initial \$1.5 million windfall for client, with ongoing revenue of \$120,000 per annum.

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DEGREE:

Bachelor of Media (Audio-Visual Production), Macquarie University.

RESULTS:

3.551 GPA.

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AWARD:

Higher School Certificate.

RESULTS:

Tertiary Entrance Ranking of 98.40.

EMPLOYMENT

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MAY

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COMPANY: Tzukuri Pty Ltd.

POSITION: Process Engineer.

Designed and implemented processes to bring to market the world's

first unlosable sunglasses and optical eyewear.

ACHIEVEMENTS:

- Key member of small team that completely redesigned the luxury eyewear manufacturing process, to incorporate electronics into a seamless package within precision-milled frames.
- Led and participated in machine, adhesives, and mass-finishing design, testing and validation.
- Coordinated design and adoption of company-wide Lean management and communications.
- Developed, programmed and deployed urgently-required Android-based QR-code stock-tracking system over very tight 24-hour timeframe.

M A R
O C T
2 0 1 6

COMPANY: Tzukuri Pty Ltd.

POSITION: Consultant, Production and Process Engineering.

Faculty of Engineering and IT, University of Sydney.

Faculty Communicator, High School Outreach Program.



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COMPANY:

Tzukuri Pty Ltd.

POSITION:

Intern, Production and Process Engineering.

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FREELANCE:

Film and TV cinematographer and camera operator.

Worked on many television shows, independent features, music videos, and short films and documentaries in Australia and internationally.

ACHIEVEMENTS:

- Shot and co-produced the internationally award-winning short film Finding Manjushri in the foothills of the Indian Himalayas. The film was included in the Official Selection at Cannes 2013.
- Concurrently filmed and co-produced a documentary commissioned by award-winning director Khyentse Norbu. This project has since won further funding and I filmed recently for it in Europe.
- Designed and built many camera rigs, jibs, stabiliser and trick optical devices.

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FREELANCE:

Film and TV camera and jib assistant, focus-puller and camera operator.

Worked on many television shows, music videos, corporate promotions

and short films and advertisements in Australia and overseas.

TECHNOLOGY

CODE

LANGUAGES:

Extensive experience with Python, PHP, HTML, MySQL, CSS, Javascript,

Objective-C, Java and MATLAB.

PROJECTS I INITIATED AND LED

- Designed, programmed and released on the App Store and Obj-C iOS app, and complementary Android app and web backend, allowing users to match apps when migrating cross-platform.
- Honours thesis Android app to aid teaching of Numerical Methods, available on Play Store. (https://play.google.com/store/apps/details?id=com.simly.numericalMethods)
- Suite of educational web games to teach Emergent Systems. (https://simly.com.au)
- Solid and fluid dynamics simulations in ANSYS simulation package and in Solidworks.
- Custom Navier-Stokes and 3D unstructured mesh heat distribution solvers in MATLAB.

SOFT WARE PACKAGES:

Extensive experience with Adobe Creative Suite, Blender 3D modeling, video editing packages, and Office suite. Written custom Javascript/

AppScript extension modules for Google Docs applications.

CAD/ SKILLS: CAM

Solidworks Certified Associate (Certificate # C-BJ9MDG98RS). Familiar with

RhinoCAM and CNC milling/lathe processes. Own and use FDM printer.

Conversant with Arduino microcontroller platform & labVIEW package.

COMMUNITY

I currently act as the Technical Officer for Lotus Outreach Australia, a charity that aims to prevent slavery and human trafficking in South-East Asia. For many years I volunteered as a judge for Tournament of Minds Australia, having participated previously, and I am a member of Engineers Without Borders.

REFEREES

By request