

Dion Moulton - dion@thinkmoulton.com

OBJECTIVE *I am both creative and entrepreneurial.* I like working with people to solve multi-dimensional problems with realistic, accountable and simple solutions. I am committed to the long-term success of a project.

PERSONAL Canadian and Indonesian, male, 23 years old, raised in Malaysia

EDUCATION **University of Sydney**, Sydney, Australia

Masters in Architecture

February 2014 – December 2015

Bachelor of Design in Architecture

February 2011 – December 2013

I take a holistic approach to architecture. I design to maximise occupant and ecological utility while prioritising compromises between stakeholders. I strive for evidence-based strategies, and take the initiative to interview key stakeholders for each project. Example stakeholders include homeless, funeral directors, Parramatta Council, Sydney rail, and the Pacific Island Museum Association. This approach allows me to innovate practical and relevant solutions for each project.

NOTABLE EVENTS AND AWARDS Paper “Stereotomy of Wave-jointed blocks” published in *Rob|Arch* journal, 2015

Architectural research exhibited in *Research Visions* and *Fabricating Futures* exhibition, 2015

Twice awarded under Deans’ List of Academic Excellence, 2013, 2014

Founded Australian Space Tourism Society for space design, 2014

Awarded John Stephen Mansfield Prize in Urban Design and Planning, 2013

Awarded Burnham Prize in Urban Planning and Architecture, 2013

Awarded University of Sydney Academic Merit Prize, 2013

Accredited as a Gentoo Linux developer, to maintain CAD software packages, 2012

Design selected for University of Sydney Annual Architecture Catalogue, 2012

1st place in Student Organised Network of Architects competition, *Cinematic Perception*, 2011

Duke of Edinburgh’s International Award¹, Gold Level, 2010

Mentor at Google Code-In, 2010

1st Place KDE KPresenter (KOffice suite) template design competition, 2010

Full A* grades² for Business, Physics, Math and Economics for A Levels, 2010

Best in Malaysia³ for A level business studies, 2010

Community Sports Leadership Award, 2010

Best in the world³ for AS level business studies, best in school³ for AS level mathematics 2009

Twice led a team of 12 students to represent Malaysia in NASA-sponsored International Space Settlement Design Competition in Asia semifinals, 2008 and 2009

PROFESSIONAL EXPERIENCE

Architecture

Use photogrammetry and drone scanning to maintain heritage structures for the NSW Department of Public Works. Use parametric design to automate fabrication of masonry structures. Developed toolpath generation techniques for 6-axis robots for abrasive wire construction of ruled surface osteomorphic blocks. Used post-occupancy surveys and continuous feedback to inform and then validate design decisions. Used ecological assessments to design for net-positive environmental contributions, including site hydrology, indigenous ecosystems, flora and fauna biodiversity. Interest in frame analysis, FEA, ray-tracing, and CFD to assess structural, light, and ventilation performance. Interest in space architecture, focusing on human factors and designing for long-term isolated environments.

¹The world’s leading youth achievement award (<http://www.intaward.org/>)

²A* being the highest possible grade

³Based on an examination conducted by Cambridge International Examinations Board covering all students in the UK and British International Schools globally

SevenStrokes, Kowloon, Hong Kong

Founder, CEO

March 2013 – present

SevenStrokes is not code monkeys for hire. Founded web development company using open-source collaboration practices. Partner with startups to develop both business models and technical solutions simultaneously. Projects include surgical visualisation, photo compositing and product customisation. Deploy Gentoo-based web, mail, collaboration, test & build automation infrastructure. Active as a full-stack developer, project leader, salesperson, and trainer. Projects include REST APIs (RMM Level 3), iOS/Android applications, film repositories, social photosharing, ecommerce and image processing. Projects have a usecase-driven design, use TDD (90% test coverage), have decoupled microservices built with PHP, Python and Javascript, uses SOLID principles, with continuous integration.

Zygomatic Studios, Trollhattan, Sweden

Software developer and Sales

2006 – present

Developed media repositories and animation work for public and private use. Currently helping to expand to overseas markets through an internationalisation (*i18n*) strategy and positioning.

PB Web Development, Sydney, Australia

Software developer

2013 – present

Provide consultation and implementation for legacy migrations, ecommerce, and API integration.

Freelancer

2006 – present

Built software for curriculum planning, CRMs, data center infrastructure management usability studies, personal project diary platform, and 3D animated TV advertisements. Web branding development for KDE. IRC support and occasional patches for FOSS software, including Gentoo, KDE, Twitter's pex, and payment gateways such as Braintree and omnipay.

Urban Futures Organisation, Sydney, Australia

Architectural Intern

2014

Worked on a competition for an educational precinct in Guangzhou, including a stadium, hospital, recreation centre, and residential district.

3D Graphics

Built ex-largest online 3D model repository for Blender (3D suite). Regularly create architectural visualisation, short animations, and compositing. Selected to review *Blender 3D Architecture, Buildings and Scenery* by Packt Publishing. Delivered summer course in 3D modeling. Motion capture and panoramic video processing for studies in behavioural robotics.

Music

Classically trained pianist to LRSM level and music composition. Teach piano lessons. Musical director and composer for Architecture Revue at University of Sydney for five years. Voted best revue band by Honi Soit magazine. Casual jazz and improvisation performer.

Charity

Volunteered at a mobile free clinic. Mentored under Australian Indigenous Mentoring Experience.

SOFTWARE

Creative (not exhaustive)

Photoshop, AutoCAD, Illustrator, InDesign, Blender, GIMP, Inkscape, Audacity, Lilypond, L^AT_EX

Languages

PHP (main), Javascript, Python, MySQL, HTML, CSS, BASH, some conversational Mandarin :-)

CREATIVE

<http://thinkmoult.com/portfolio/>

REFERENCES

Available on request.