

BYRON VICKERS

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Analyst and Developer

- **Innovative analyst and developer** with a balance in technical competence (hard) and interpersonal (soft) skills
- **Expert in understanding complex problems** – with a background in physics and mathematics, modelling and understanding tangled systems is a speciality
- **Adaptive and resourceful** – able to shift on-the-fly to reprioritize goals, work with shifting stakeholder requirements, and learn new skills on-the-job if needed

Relevant Professional Experience

Analyst – Systems and Development, Feb 2017 to current – AUSTRALIAN NATIONAL UNIVERSITY, Canberra
Work within the Dean's Office of the College of Engineering and Computer Science to conduct a variety of analyses both internally and externally, as well as operating as a project support officer for an ongoing large software project.

- Working with a major ANU business unit to conduct a joint internal and external review of strategic approaches across the sector with regards to several ongoing sector-wide shifts. The goal is to develop a strategy which will enable the university as a whole to adapt to – and to pre-empt – ongoing and upcoming transformations in the sector.
- Am currently conducting a survey of educational approaches in similar bodies across Australia and internationally, with an eye to taking a revolutionary approach to how CECS teaches a few select disciplines identified as having potential for high growth.
- Currently working with a small development team in a project-manager type role to ensure successful project outcomes and smooth adoption of the new technologies across the College.

Business Analyst, Feb 2016 to Aug 2016 – AUSTRALIAN NATIONAL UNIVERSITY, Canberra

Worked with the College of Engineering and Computer Science at ANU to gather and summarise College requirements on a variety of projects.

- Developed comprehensive requirement documents for a large-scale project to modernise the College's handling and storage of all course related data, in particular to satisfy internal and external reporting and compliance needs. This project has now been picked up at the university level, and will be developed across the entire institution using the existing project as a template.
- Collated requirements and proposed various solutions for an inter-university platform allowing Engineering colleges across the Go8 (and eventually beyond) to benchmark their courses against each other – allowing for collaborative improvement in teaching quality, and proactively bringing the College in line with incoming legislative requirements.

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Lead Developer, Jul 2013 to Oct 2016 – MADE FOR ME, Canberra

Technical lead for Canberra-based startup, providing web services for 3D printing professionals.

- Architected and developed a web application providing high-accuracy predictive pricing for 3D print services, report generation and workflow management for service providers, and automated order management for customers.
- Worked with internal and external stakeholders to develop and clarify requirements both prior to and as an integral part of the development process.
- Used AWS Cloud Services to achieve high-uptime, low-latency availability worldwide for customers worldwide.
- Streamlined deploy process enabling frequent application updates with automated testing and simple rollback if required.
- Technologies used: Python, Django, Bootstrap, Amazon AWS

Research Software Developer, Oct 2011 to Aug 2012 – AUSTRALIAN NATIONAL UNIVERSITY, Canberra

Worked with professors across several research schools at the ANU to develop fast, reliable software to assist with their research needs. Required ability to learn new languages on-the-fly and integrate effectively with existing codebases.

- Technologies used: R, MATLAB, Python, FORTRAN

Software Testing and Support, Sep 2009 to Sep 2011 – AUSTRALIAN NATIONAL UNIVERSITY, Canberra

Responsible for testing and support of ANU's Learning Management System. Worked with ANU's central online learning and teaching team to investigate reported bugs, test new system deployments, support users, and develop user documentation.

- Technologies used: HTML, CSS, PHP

Web Application Developer, July 2008 to Jan 2009 – AUSTRALIAN NATIONAL UNIVERSITY, Canberra

Developed a novel self-assessment tool for the ANU's Graduate Literacy Program. The system enabled staff within GILP to craft quizzes for graduate students at the university, which students would then take to determine their level of understanding and which offerings of GILP were most suited.

- As the sole developer, worked closely with GILP staff to develop requirements and scope the project. The system received positive feedback from both staff and student users after go-live.
- Technologies used: HTML, CSS, Javascript, PHP, MySQL

Education

PRINCETON UNIVERSITY – Princeton, NJ (USA)

Engineering Masters with focus on Statistics and Machine Learning, Completed Jan 2017

AUSTRALIAN NATIONAL UNIVERSITY – Canberra, ACT (AUS)

Bachelor of Philosophy (Hons 1) with focus on Physics and Maths, Completed Dec 2011