

Aaron Fordham

Hydrogeologist

CONTACT

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Github	http://github.com/elder-of-ozone

WORK EXPERIENCE

2014 - CURRENT

Sales Assistant at Jaycar Electronics

- Consistently achieved weekly and monthly sales targets (\$10,000).
- Diagnosed electronic faults for a variety of circuit boards.
- Customer service - specialised in electronic components.

2014 - 2015

Research Assistant at CSIRO - Land & Water Division

Contract at CSIRO was based on furthering master's project.

- Analyse geological, hydrogeological and geochemical data in preparation for conceptual and numerical model.
- Developed a hydrogeological conceptual model between the interactions of fresh groundwater lenses and the underlying saline groundwater.
- Constructed steady-state and transient numerical models with Processing MODFLOW software using MTD3DS and SEAWAT packages.

MAY 2014

Intern at RPS Group PLC

Internship focused primarily on independently reproducing results of Port Coogee aquifer storage project.

- Geochemical analysis using PHREEQC with biological interpretations.
- Estimated hydraulic conductivity from injection tests.
- Conceptual bore design for a nutrient-laden limestone aquifer.

2012 - 2013

Geologist Assistant at KBL Mining Limited

Maintained the historical database.

- Updated database from historical reports.
- Generated scripts to convert the existing database into usable uniform formats - saving weeks of manual work.
- Received valuable fieldwork experience with core logging on reverse circulation drill rig.
- Geochemical sampling using portable X-ray fluorescence devices.

EDUCATION

2013 - 2015

University of Western Australia

Masters: Hydrogeology

Thesis Title

- The persistence of fresh groundwater in the Raudhatain and Umm Al-Aish provinces, Northern Kuwait.

Relevant Courses

- Advanced Hydrogeology
- Hydrogeological Impact Assessment
- Remediation of Soils and Groundwater

2009 - 2012

University of New South Wales

Bachelors: Environmental Science (Hons)

Thesis Title

- Hydraulic connection between the Bell River, Wellington Caves and adjacent alluvial aquifers.

Relevant Courses

- Environment and Contaminant Geochemistry
- Ground and Surface Water
- Environmental Impact Assessment
- 3D Geological Modelling

VOLUNTEER

2014

Vice President (Coursework) at University of Western Australia Postgraduate Students' Association
Represented postgraduate coursework students at University of Western Australia

- Chairperson of policy and fundraising subcommittees.
- Member of the Board of Coursework Studies.

2013

Treasurer at Department of Earth and Environment Talk Series
Managed \$1,000 grant for small talk series in UWA's geoscience department.

- Successfully delivered a budget proposal for \$1,000 financial grant.
- Kept up to date records for all transactions every fortnight across 30 weeks.
- Communicated financial position to committee members.

AWARDS

2015

Postgraduate Scholarship
Commonwealth Scientific and Industrial Research Organisation (CSIRO)

- Scholarship to support my masters' year

2012

Summer Scholarship
National Centre for Groundwater Research and Training

- Scholarship to support my honours' year.

SKILLS

Programming Languages (Intermediate): Python, C++, Objective C, Mathematica
Geoscience Applications (Intermediate): Processing MODFLOW, Flopy, FEFLOW, PHREEQC, ArcGIS ver. 10

INTERESTS

Home Automation and Electronics: Prototyping and coupling sensors for real time home monitoring on web server.
Computer Science: Utilising API's to integrate multiple applications together.

REFERENCES

AVAILABLE UPON REQUEST

Ryan Vogwill
Associate Professor
University of Western Australia

Andrew Waite
Cluster Manager
Jaycar Electronics