

**Robert W. Loomes**

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## Education

2008 – Present

**University of Canterbury**

Bachelor of Science (BSc) majoring in Geology and Biology  
Bachelor of Science (BSc) majoring in Computer Science

## Experience

2010

**Field work for Dr Mark Quigley**

Field mapping and processing. Involved using an RTK (Real Time Kinematic) to measure minor ground deformations along the recent Canterbury Greendale fault. Post analysis report and reflection via GIS software: ArcView.

2012 – 2015

**Geotechnics Ltd- Geotechnical technician**

Proficiency with gINT- an interoperable data management software for reporting and maintaining subsurface geophysical logs and lab tests. Includes fence diagrams and other geospatial graphics.

Data collecting and reporting with sensitive equipment such as inclinometers, profilometers, extensometers, and vibromonitors.

2012 – Present

**Notable Projects (see github for more)**

- Interactive pet based Java applet.
- GLUT C++ fully animated model gallery with dynamic lighting and controllable camera.
- GLUT C++ ray tracing graphical renders.
- Networking socket and routing protocol daemons.
- Android game applet with emphasis on utilising as many mobile sensors as possible (gyroscope, GPS, accelerometer etc).
- Developing and engineering a Tiva micro-controller to fly a model heli-rig, including stable error-control adjustments.
- Basic mock full-stack dynamic website.

### Technologies

Web	HTML5, CSS3, JavaScript
Programming	C++, C, Java, Python, Ruby
Data	MySQL, Mongo, Node.JS
Frameworks	Rails

References available upon request.