

Curriculum Vitae
Of
TAKESHI SATO
BSc (Honours)

PERSONAL CONTACT DETAILS

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PROFESSIONAL AMBITIONS

My professional goal is to become a leading geophysicist in pursuit of technical aspects of the industry. With the knowledge and experience that comes with the position, I hope to be able to provide more effective and efficient methods of providing geophysical solutions.

EMPLOYMENT HISTORY

April 2012 – Dec 2014 **Position: Consultant Geophysicist**

ASST Pty. Ltd. – Perth, Australia

One of three key personnel in ASST involved in start-up and ongoing contribution of geophysical consulting company. Involved in designing geophysical surveys for a range of clients in different disciplines from mining, geotechnical engineering, hydrogeological and environmental companies. Key survey personnel and developer of survey techniques utilised by ASST, both electrical and seismic surveys. Key field trainer for ElectroMagnetic Imaging Technology (EMIT) on the use of their electromagnetic equipment in 6 countries (Australia, India, Germany, Finland, Papua New Guinea and Tanzania). Key geophysicist for GeoMole Borehole Radar tools in acquisition, processing and interpretation. Knowledgeable in several processing and interpretation software packages for ground geophysics, such as Geosoft, Reflex, Maxwell and Res2DInv.

March 2012

Position: Geophysicist Trainer

ElectroMagnetic Imaging Technology Pty. Ltd. – Perth, Australia

On contract to train geophysicists on the use of Borehole Electromagnetic Tool (Digital Atlantis probe with SmarTEM24) and Fixed Loop Electromagnetic acquisition (SmarTEM24 with Coil

receiver). The training also included processing of data and modelling of plates in Rajasthan, India.

July 2008 – March 2012 **Position Held: Geophysicist**

GroundProbe Pty. Ltd. – Perth, Australia

Duties included the development and management of a variety of projects, managing teams of geophysicists, liaising with clients, sub-contractors and suppliers. Other aspects of the position include researching and development of a range of survey designs and acquisition techniques for shallow seismic surveys. These responsibilities are in addition to the responsibilities of data processing, interpretation and reporting on various types of data acquired.

Jan 2007 - Jun 2008 **Position Held: Geophysicist**

Geoforce Geophysical Solutions Pty. Ltd. – Perth, Australia

The initial position held was a field geophysicist, where extensive survey experience was gained through numerous campaigns in Underground, Brownfield and Greenfield areas. This involved conducting quality checks and assessing field data, meeting and maintaining onsite regulation and safety standards, and was given the capacity to directly liaise with onsite clients to complete projects successfully. This role then progressed to data processing, interpretation and reporting on field data to meet client requirements.

Mar 2006 - Dec 2006 **Position Held: Junior Geologist**

Uranium Exploration Australia Limited – Sydney, Australia

This role involved a myriad of responsibilities ranging from drill target selecting, landholder relations to Indigenous relations where a number of drilling pads had to be cleared before commencement of work. Once drilled, the core was logged and results conveyed to managers. This role included extensive campaigns in remote areas of Australia.

Dec 2005 - Feb 2006 **Position Held: Geophysics Intern**

Illawarra Coal, BHP Billiton Limited – Illawarra, Australia

As an intern at the Resource and Exploration sector at Cordeaux Colliery where coal seam seismic data processing was undertaken. This work involved working as part of the exploration team where multi-tasking and autonomous working skills were gained.

Dec 2004 - Feb 2005 **Position Held: Research Assistant**

University of Sydney, Faculty of Geoscience

As a research assistant at the Geophysics Imaging Lab valuable knowledge was gained in the use of data processing programs, such as Matlab and Surfer.

TECHNICAL QUALIFICATIONS

SURVEY METHODS

- Resistivity and Electromagnetic Surveys
 - Electrical Resistivity Imaging (ERI)
 - Shallow Marine Electrical Resistivity Imaging (MERI)
 - Surface Electro-Magnetic Surveys (FLEM, MLEM)
 - Downhole Electro-Magnetic Surveys (DHEM),
 - Shallow Electro-Magnetic Survey (EM31, EM34 and EM38)
 - Airborne Survey (SkyTEM)
 - Magnetics
- Shallow Seismic Surveys
 - Refraction
 - Shallow Marine Refraction
 - Refraction Micro-Tremor (ReMi)
 - Multi-channel Analysis of Surface Waves (MASW)
- Ground Penetrating Radar (GPR)
- Borehole Radar

DATABASE PROCESSING AND INTERPRETATION

- Processing Software Packages
 - SeisImager 4.2
 - SeisOpt 4.0
 - SurfSeis 3.0
 - Maxwell 5
 - SmarTEM24
 - Reflex 7
 - Iris Instrument ProsysII & Electre Pro
 - Res2Dinv
 - Res3Dinv
 - ABEM Toolbox
 - GoCAD
 - GeoMole BHR processing software SeisWin
- Geographical Information Systems (GIS) Programs
 - ESRI Software – Familiar with ERMapper
 - Encom Software Packages – Including MapInfo v11 and PA v12
 - Oasis Geosoft 8
 - Surfer 8

EQUIPMENT

- ABEM Terrameter LS
- Geometrics Geode
- IRIS Instruments – Syscal Pro
- SmarTEM24 and SmarTEM V
- Atlantis Probe (Analogue and Digital)
- Mala radar systems
- GeoMole Borehole radar systems
- NavCom GPS systems
- Novatel GPS systems

EDUCATION

University of Sydney, Australia

- 2005 **Bachelor of Science Honours** - Supervised by Prof. P. Hatherly and Prof. I. Mason
Course work included: Mine Geology and Geophysics for Mining Operations (UNSW); Mapping using MapInfo; Petroleum Systems and Play Fairway Mapping and Programming in C++
- 2002 - 2004 **Bachelor of Science** – Completed in 2004
Majors:
- Geophysics
 - Geology
 - Chemistry

- 1991 - 2001 **International School of Moshi, Tanzania**
International Baccalaureate (IB) Diploma

For more information about ISM and the IB Diploma please see;

- International School of Moshi website: <http://www.ismoshi.org>
- International Baccalaureate website: <http://www.ibo.org>

RESEARCH PAPERS

Unpublished Honours Thesis - (2005), “An investigation into the effect of stress fields and fractures on seismic wave propagation as detected by a Vertical Seismic Profiling survey.”, University of Sydney

LANGUAGE

English - Proficient

Swahili - Verbally Proficient

Japanese - Second Language

French - Basic Proficiency

ACHIEVEMENTS

2012	Founder of ASST Pty Ltd.
2011	Lead geophysicist for large scale shallow seismic investigation at Browse (Woodside).
2010	Lead field geophysicist for large scale shallow seismic investigation at Wheatstone (Chevron).
2009	Key geophysicist for large scale airborne electromagnetic survey.
2006	Awarded First Class Honours upon Graduation Graduated from University of Sydney with a Bachelor of Science.
2006	BHP Billiton down-hole seismic survey project was completed and a comprehensive, report was submitted.
2005	Petroleum Exploration Society of Australia Award, including a study grant.
2005	FUGRO Geophysics Prize for outstanding completion of 3rd year Geophysics.
2004	Second year entering 3 rd year Earth Resources Foundation (University of Sydney) scholarship.

LICENCES and OTHER TRAINING

Australian Car License.
Australian Light Truck License.
Australian Forklift Operator Licence.
Australian Construction White Card.
Trained in Senior First Aid and Remote First Aid.
Extensive experience of 4WD vehicles.

PROFESSIONAL MEMBERSHIPS

Australian Institute of Mining and Metallurgy (AusIMM)
Australian Institute of Geoscientists (AIG)
Australian Society of Exploration Geophysicists (ASEG)
Society of Exploration Geophysicists (SEG)
Engineers Australia (EA)

VOLUNTEER WORK

2010 - Present	Donation of blood every six months to the Australian Red Cross Blood Service.
2009 - Present	A supporter of the Red Cross Foundation.
2001	Supervised a bridge building project in Tanzania for 6 months after the completion of high school.
1999	Part of a volunteer team from school to build a class room in rural Tanzania.
1998	Helped reinforce a local bridge as a volunteer through a school program.

1997 - 2001

Supported the Amnesty International

OTHER INTERESTS

- Motorsports
- Travelling - Have lived and travelled extensively throughout Australia, Asia, Africa and Europe
- Movies
- Computers and Electrical equipment
- Sports - Swimming and Rock Climbing

REFEREES

Available upon request.