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Gerard McNeill

Education

1985 – 1989 University of Adelaide Adelaide, South Australia

Bachelor of Science (honors level)

- Majoring in geophysics
- Thesis : The Application of the Monte Carlo Technique of Simulated Annealing to solve the Residual Statics Estimation problem in Seismic data processing

1993 – 1995 University of Adelaide Adelaide, South Australia

Master of Science

- Majoring in geophysics
- Thesis : Removal of EM Coupling from Frequency Domain IP data using an Inversion Technique based on the Controlled Random Search Procedure

Professional experience

1990 – 1992 Zonge Engineering Adelaide, South Australia

Field Geophysicist

- Managing field crews of three to five people
- Logistics planning and client liaison
- Responsible for data QC and infield data processing
- Working in Australia, Papua New Guinea, Mexico and the United States

1993 – 1996 Zonge Engineering Adelaide, South Australia

Data Processor/Programmer

- Working part time while completing Masters degree
- Data processing and modeling – using Zonge processing and modeling software, Geosoft software, GS Scripter, Surfer (6.04) and Mathcad (3.0)
- Software development - programming in Lahey Fortran and Visual Basic

1996 – 2001 Zonge Engineering Adelaide, South Australia

Geophysicist

- Managing field crews and logistics planning
- Processing, data modeling and interpretation
- Compiling reports and final data presentation
- Commissioning new equipment and training clients in its operation
- Training clients in use of Zonge processing suite and data quality checks
- Working in Indonesia, Singapore, Laos, India, Fiji and Papua New Guinea

2001 – 2003 GPX Services Perth, Western Australia

Geophysicist / MIMDAS Operations Manager

- Organising and running MIM's MIMDAS Geophysical acquisition system for GPX Services.
- Processing and Modeling of MIMDAS IP and MT data
- Training GPX and MIM Personnel in the operation of the MIMDAS acquisition System
- Working throughout Australia and China during this period.

2003 – 2006 GPX Services Perth, Western Australia

Senior Geophysicist

- Data QC, processing and modeling.
- Supervising crews and training GPX Personnel in the Acquisition of Geophysical data.
- Data QC and processor on the Hoistem airborne system.
- Processing Software: OASIS Montaj, Chris DBF, Newmont's Hoistem processing suite and EMIT's Maxwell.
- Working throughout Australia, Africa and Fiji during this period.

2006 – 2007 Austhai Geophysical Chonburi, Thailand

Consulting Geophysicist

- Supervising crews and training Personnel in the Acquisition of Geophysical data.
- 2D/3D Modeling and high end processing of IP, Magnetic and MT data.
- Processing and Modeling Software used: OASIS Montaj, EMIT's Maxwell, UBC's DCIP3D, Zonge's TS2DIP and EMFLOW.
- Software development, using Visual Basic and C^{++}.
- Clients:
    - **Khumsup Siam, Thailand:** Supervising crews and training Khumsup personnel in the Acquisition of Geophysical data.
    - **Xstrata, Australia:** Reprocessing of archive MIMDAS Data
    - **Oxiana, China:** 2D modeling of IP data
    - **Axiom Mining Ltd, Vietnam:** 2D and 3D modeling of IP data
    - **Thai Mineral Ventures, Thailand:** 3D inversion of IP data.
    - **Thai Goldfields**, **Thailand:** Magnetic processing\modeling and 3D IP inversion.
    - **Johnson Exploration Services Pty Ltd, Perth.:** 2D IP inversion
    - **Puthep Company Ltd, Thailand:** 3D modeling of IP and Magnetic Data. Interpretive report outlining zones of alteration.
    - **Quantec Geophysics, Brisbane:** Development of format conversion and QC software.
    - **GPX Services Pty Ltd, Perth:** Development of format conversion and QC software.

2008 Khumsup Siam Lat Krabang Thailand

Senior Geophysicist

- Data QC, processing and modeling.
- Supervising crews and training Khumsup Personnel in the Acquisition and processing of Geophysical data.
- 2D/3D Modeling and high end processing of IP, EM, Magnetic, Gravity and MT data.
- Processing and Modeling Software used: TQIPdb, Windisp, Magmap2000, EMIT's Maxwell, DCIP3D and Mag3D.
- Working throughout Thailand, Cambodia, Laos, PNG and China during this period.

2008 to Present Austhai Geophysical Bangkok, Thailand

Consulting Geophysicist

- Data QC, processing and modeling.
- Supervising crews and training Personnel in the Acquisition and processing of Geophysical data.
- 2D/3D Modeling and high end processing of Magnetic, Gravity, EM, IP and MT data for various clients.
- Processing and Modeling Software used: OASIS Montaj, EMIT's Maxwell, UBC's DCIP3D, Zonge's TS2DIP, EMFLOW. TQIPdb, Windisp, Magmap2000, EMIT's Maxwell, DCIP3D and Mag3D.
- Clients:
    - **Sichuan Hauxi Mining, China:** Late 2008 carried out 3D modeling of IP data, interpretation and drill hole placement. Successful drilling results returned.
    - **Henan Found Mining Corp., China:** Currently contracted to supervise and train Chinese personnel in the Acquisition of Geophysical data. QC, process and 3D inversion of the IP data collected.
    - **Moore Geophysics, Perth:** 2D Inversion of IP data.

Presentations and publications

1989 - ASEG Student night presentation on honors thesis. Adelaide, South Australia.
1993 - International Congress on Modeling and Simulation. Perth, Western Australia.
1994 - The John S. Sumner Memorial International Workshop on Induced Polarization (IP) in Mining and the Environment. Tucson, Arizona, USA.
2003 – ASEG 16th geophysical Conference and Exhibition. Adelaide, South Australia. (Two presentations on the MIMDAS System)

Languages

Basic Thai, Pidgin, Indonesian and Malay

Certifications

Senior First Aid certificate
MARCSTAR general mine induction
Drivers license
PADI – Open Water Diver
Student Pilot License – Light aircraft