

- Monitor prism arrays inside the tunnel in a high precision manner.
- Calibrate RoadHeaders and RoboDrills.
- Setup VMT Guidance System (Total Station, Central Box, TUNIS Navigation Office, XML Files, etc.)
- Troubleshoot Network problems between the Guidance System and RoadHeaders + RoboDrills.
- AsBuilt Tunnel Elements (Excavation – roof, wall and bench, Shotcrete layers, Strip Drains, etc.)
- Set-out Tunnel Elements (services pin holes, gridlines, fresh air vent bag knocker lines, etc.)



Back-End Works

- Set-out Tunnel Elements.
- AsBuilt Tunnel Elements.



BACS Consortium (Bechtel AlMabani CCC Siemens)
Survey Engineer

Jan 2016 - Jan 2019

Project: **BACS Riyadh Metro Project**, Riyadh, KSA

Character Reference:

- Eduardo B. Dela Cruz <ebdelacr@bechtel.com> Bechtel Field Engineering
- Roberto D. Lopez <rdlopez@bechtel.com> Bechtel Field Engineering

Cast-in-Place Balanced Cantilever

- Establish Control Points.
- Calculate 3D Survey data needed for site works.
- Set-out site elements like Centerlines, Temporary Openings and Ducting.
- Calculate Cambered Elevations for individual spans.
- Discuss with Site Engineers the site plans and operations.



Segment Erection

- Process Survey Work Request.
- Calculate and prepare Cambered as-cast data coordinates for site surveyors alignment work.
- Create AutoCad Sketch and Plan for AsBuilt and Verification purposes.
- Process Span Final Alignment report in Autocad and Excel Spreadsheet.
- Create and maintain Span Alignment Database.
- Manage survey crew for 5 Launching Gantry in dayshift and nightshift.

PreCast Yard

- Automate Survey data processing by making MSEXcel programs and tools.
- Weekly Calibration of Total Stations (Trimble S8).

PROGRAMMING

VBA	90%
Excel Automation (VBA)	90%
Autocad Automation (VBA)	90%
Visual Basic	70%
C#	50%
Casio Calculators	95%

GRAPHICS DESIGN

Adobe Photoshop	90%
Adobe InDesign	85%
Adobe PageMaker	90%
Adobe Illustrator	85%
CorelDRAW	80%

VPS WEBSITE DEPLOYMENT

CentOS server	90%
WordPress	90%

PRC BOARD EXAM RATING

Mathematics	89%
Theory and Practice	87%
Geodesy	91%
Laws and Regulations	76%
Cartography	91%

LANGUAGES

English	●●●●●
Filipino	●●●●●
Cebuano	●●●●●
Hiligaynon	●●●●●

- Process Survey Work Request.
- Conduct pre-pour Alignment Survey of Segments to be Casted by using Total Station and Digital Level.
- Prepare pre-pour Survey Reports for transmittal.
- Create and maintain casted segments Database. With pivot table, graphs and projection.
- Act as a Lead Surveyor in absence of the Lead Surveyor.
- Follow always the Health, Safety and Environment (HSE) rules carefully and making sure that the working place is safe.



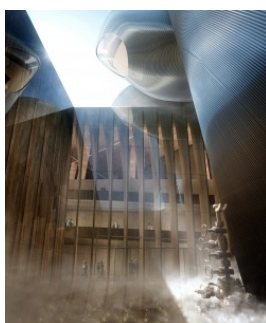
seele Saudi Arabia LLC

Survey Engineer

Dec 2013 - Jul 2015

Project: **King Abdulaziz Center for World Culture(KACWC)**, Dhahran, KSA

- Manage and supervise other survey teams, give them daily instructions and task to be executed in the site with the approval of the Construction Manager.
- Establish Survey Methodology.
- Make calculator programs needed for site survey calculations.
- Automate Survey data processing by making Excel programs and tools.
- Establish and monitor 3-dimensional control points for the project site using Leica Geo Office software.
- Extract data coordinates from AutoCAD and Rhino files for site setting-out.
- Prepare Survey Reports for transmittal.
- Joint Survey with other contractor's survey department.
- Follow always the Health, Safety and Environment (HSE) rules carefully and making sure that the working place is safe during the entire construction period.



seele Saudi Arabia LLC

Survey Engineer

Jun 2011 - Dec 2013

- Manage and supervise other survey teams, give them daily instructions and task to be executed in the site with the approval of the Construction Manager.
- Establish Survey Methodology.
- Make calculator programs needed for site survey calculations.



- Automate Survey data processing by making Excel programs and tools.
- Establish and monitor 3-dimensional control points for the project site using Leica Geo Office software.
- Extract data coordinates from AutoCAD and Rhino files for site setting-out.
- Prepare Survey Reports for transmittal.
- Joint Survey with other contractor's survey department.
- Follow always the Health, Safety and Environment (HSE) rules carefully and making sure that the working place is safe during the entire construction period.



Fortune Pacific General Contracting

Structural Land Surveyor

Jul 2010 - Apr 2011

Project: **St. Regis Beach Resort Saadiyat Island**, Abu Dhabi, UAE

Client: Warner Land Surveys Ltd.

- Establish horizontal and vertical control points for the project site.
- Setting-out of various points, gridlines and elevations needed on the site.
- As-built survey for the coordinates and elevations of existing structures and processing the data to create an updated As-built drawing for future reference.
- Extract data (coordinates and elevations) from CAD files for setting-out.
- Download and upload, import and export survey data from survey instrument to personal computer or other way around. And counter checking of survey data calculation in compliance to project drawings and specifications prior to concreting.
- Check the survey instruments like TOTAL STATION, GPS, and LEVELLING INSTRUMENT, etc. following with the standard accuracy. Verifying the collimation and instrument calibration from time to time.



- Follow always the HSE (Healthy and Safety Environment) rules carefully and making sure that the working place is safe during the entire construction period.
- Follow a Systematic Method of obtaining data and using only updated specification and latest revision drawings. (Wrench Enterprise)
- Double check the drawings before executing, if any comments found, cross check with all relevant (structural, architectural, setting out plans) drawings and finalized the correct one with the concern higher authorities.
- Topographic surveying with contour, area and volume (cut and fill) calculations using Surveying Software (LisCad, Autodesk AutoCAD Land Desktop 2009 and Autodesk AutoCAD Civil 3d 2011).
- GPS Static control points establishment.
- GPS Real Time Kinematic (RTK) setting-out and asbuilt survey.



Fortune Pacific General Contracting

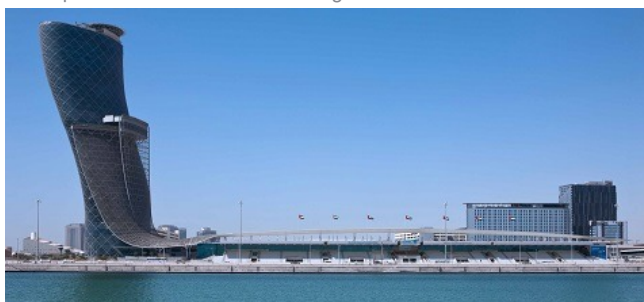
Architectural Site Surveyor

Feb 2010 - Jun 2010

Project: **ADNEC Capital Gate Tower** Entrance – The leaning tower of Abu Dhabi.

Client: Waagner Biro International

- Establish horizontal and vertical control points in coordination with the structural surveyors.
- Joint survey with the main contractor survey team.
- Extract data (coordinates and elevations) from latest CAD files for setting-out.
- Setting-out of Steel Column base, Steel Beams & Brackets and other elements needed by the installation team.
- Alignment / As-built survey of steel structure, prior to installation of glass.
- Direct report to the Construction Manager.



Fortune Pacific General Contracting

Architectural Site Surveyor

Mar 2009 - Feb 2010

Project: **MASDAR Institute of Science and Technology**, Abu Dhabi, UAE

Client: Reem Emirates Aluminum (REA)

- Establish horizontal and vertical control points in coordination with the structural surveyors.
- Joint survey with the main contractor survey team.
- Extract data (coordinates and elevations) from latest CAD files for setting-out. Compare embeds and bracket lay-out drawing and make RFIs if necessary.
- As-built survey of slab edge, prior to installation of brackets.

- Mark benchmarks, offset lines on the slab edge for the reference of the bracket and panel installation teams.
- Setting-out of embed and bracket centerlines.
- Check the level and the in/out of the bracket, check the level of the gutter head after panel installation, check the distance from the back of mullion to offset line if it is within allowable tolerance.
- Setting-out of any other elements needed by the installation team.
- Direct report to the Construction Manager.
- Manage other survey teams, give them daily instructions and task to be executed in the site with the approval of the Construction Manager.



ALDAR Laing Rourke Construction LLC UAE

Structural Land Surveyor

Feb 2008 - Mar 2009

Project: **ASYMPTOTE TOWER** and **AL BANDAR (Al Raha Beach Project)**,
Abu Dhabi, UAE

- Establish horizontal and vertical control points for project site.
- Systematic transferring horizontal and vertical control points from one floor to another maintaining the accuracy.
- Setting-out of various points, lines and elevations needed on the site.
- Pre-pour check/verification of line and grade for various structural concrete foundations and embedded items in accordance to design drawing & project specifications.
- As-built survey for the coordinates and elevations of existing structures and processing the data to create an updated As-built drawing for future reference.
- Extract data (coordinates and elevations) from CAD files for setting-out.
- Download and upload, import and export survey data from survey instrument to personal computer or other way around. And counter checking of survey data calculation in



compliance to project drawings and specifications prior to concreting.

- Check the survey instruments like TOTAL STATION, GPS, and LEVELLING INSTRUMENT, etc. following with the standard accuracy. Verifying the collimation and instrument calibration from time to time.
- Follow always the HSE (Healthy and Safety Environment) rules carefully and making sure that the working place is safe during the entire construction period.
- Follow a Systematic Method of obtaining data and using only updated specification and latest revision drawings. (Aconex)
- Double check the drawings before executing, if any comments found, cross check with all relevant (structural, architectural, setting out plans) drawings and finalized the correct one with the concern higher authorities.
- Monthly Settlement Monitoring of benchmarks within the site to track changes of elevation within the construction area and make the necessary adjustments.



— EDUCATION

**Negros Oriental State University
(NORSU)**
Bachelor Of Science In Geodetic Engineering

June 2002 - March 2007

- **1st PLACE** in the Professional Regulation Commission Licensure Examination in Geodetic Engineering (September 2007)
- PROFESSIONAL REGULATION COMMISSION (PRC) **License No. 0008069**

Board Examination Ratings

SUBJECTS	RELATIVE WEIGHT	RATINGS
Mathematics	20	89%
Theory and Practice of Surveying	20	87%
Geodesy	20	91%
Laws and Regulations	20	76%
Cartography	20	91%

— CO-CURRICULAR ACTIVITIES / SCHOLARSHIP

Geodetic Engineering Student Society 2006 - 2007
President

The PYLON (Official Yearbook on NORSU System) 2005 - 2007
Information Management Head

The PYLON (Official Yearbook on NORSU System) 2002 - 2007
Recipient Of The Pylon Scholarship (5-Year Engineering Course)

Geodetic Engineering Student Society 2005 - 2006
Auditor

ROTARACT CLUB OF NORSU 2004 - 2005
Treasurer

Geodetic Engineering Student Society 2004 - 2005
Business Manager

The PYLON (Official Yearbook on NORSU System) 2003 - 2005
Lay-Out Artist

NORSU Student Multi-Purpose Cooperative 2003 - 2004
Board Member

The PYLON (Official Yearbook on NORSU System) 2002 - 2003
Business Manager

— CERTIFICATES AND AWARDS

[Click here to view.](#)



Portfolio



Blog



Contacts

