

## Specialized Add-On Module to CAD Software

### What is GEOsCAD2 ?

GEOsCAD2 is an essential add-on CAD drafting application tool for ZWCAD & AutoCAD Software, helping users to avoid tedious routines, repetitive manual work while strictly adhering to industry requirements.

GEOsCAD2 offers automation or semi-automation of drafting tools which helps create excellent drawings, reduces errors, and saves time.

### Who needs GEOsCAD2 ?

Developed with more than 20 years of end-users industry experience, GEOsCAD2 was developed especially for the Geomatics Land Surveying industry, where some part of the drafting toolsets does apply for some other industries such as the Civil Engineering, Town Planner...

### CAD Platform Supported

- ◆ GEOsCAD2 (Std / Pro) For ZWCAD :
  - Prerequisite Installed ZWCAD (2018 - 2023)
- ◆ GEOsCAD2 (Std / Pro) For AutoCAD :
  - Prerequisite Installed AutoCAD (2018 - 2023)

**Tools to Accelerate Your Efficiency, Accuracy and Productivity**

**Add-on can be used in ZWCAD and AutoCAD Software**

**Short Learning Curve with Manual Guide & Videos**

### Top 5 Reasons to Use GEOsCAD2

**Affordable Cost-Effective Add-on**

**Permanent & Portable License**

Developed By **cadfocus**  
Made in Malaysia

### G2 Traverse Line – Auto / Manual Plot

### G2 Auto / Manual Labelling Tools

### G2 Auto Lot Numbering

### G2 Polygon, Area, Coordinates & Bearing Distance Table

### G2 Auto Area, Bearing & Coordinates Labelling

### G2 Auto / Manual Insert Boundary Marks Symbols

### G2 Traverse Misclose Report & Adjustments

- Traverse Misclose Report
- Bowditch Adjust Misclose
- Transit Rule Adjust Misclose
- Crandall Adjust Misclose
- PO and New Adjust

Ori Bearing	Ori Dist	New Bearing	New Dist	Mis Lat	Mis Dep
345°51'06"	71.672	345°51'30"	72.224	-4.349	-2.706
161°33'54"	39.298	160°49'37"	36.889		
201°28'50"	28.037	201°14'54"	27.557		
265°47'17"	80.368	266°35'47"	78.532		
344°30'19"	32.560	345°14'34"	32.942		
16°40'35"	44.128	17°02'50"	44.810		

### G2 Text & Points Tools

**Text & Points Tools**

- Display Text from points
- Spot Level
- Insert Spot Height with IL
- Interpolate Spot Height
- Set Point Elevation to Zero
- Change Datum for Spot Level
- Insert Point symbol
- Text In Box..



**G2 Coordinates Transformation & Export to Google Earth**

**New! (v.22)**

- Transformation of Coordinate
  - GDM Cassini to WGS84
  - WGS84 to GDM Cassini
  - GDM Cassini to Google Earth
  - Ketau Datum
- Ketau Cassini to RSO
- RSO to Ketau Cassini
- RSO to MRT
- MRT to RSO
- Ketau Cassini to Google Earth

Locations: Johor, Kedah, Kelantan, Melaka, N Sembilan, Pahang, Perak, Penang, Selangor, Terengganu.

**G2 Spot Level - (Texts & Point)**



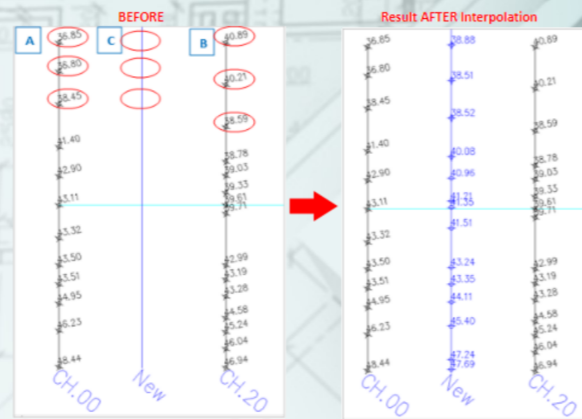
**G2 Pile Survey**

Point 1, Point 2, Output

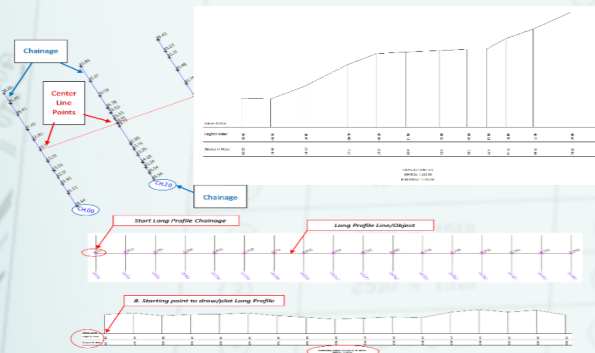
278, 279

- Set Pile Number
- ASCII Output X,Y
- ASCII Output For Bearing Distance
- Pile Deviation Asbuilt

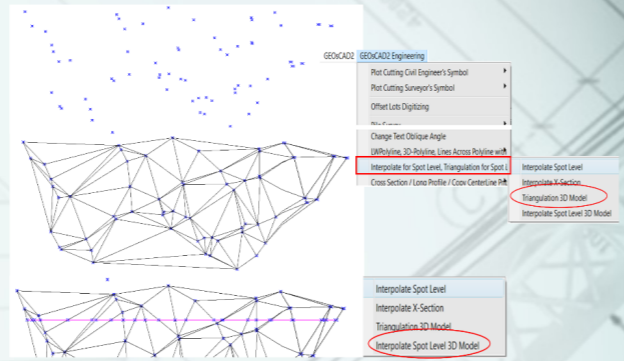
**G2 Interpolation - (Spot Level, Cross Section & 3D Model)**



**G2 Cross Section & Long Profile**



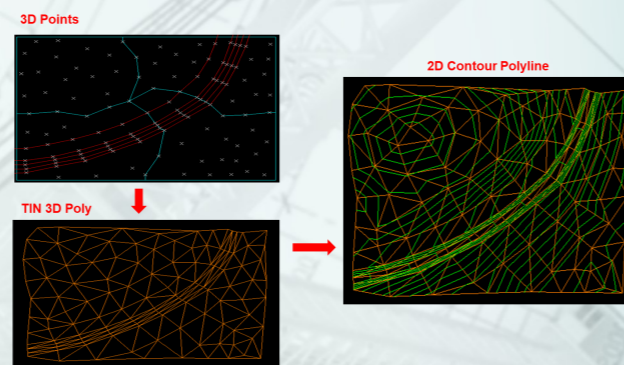
**G2 Point to Triangulation (TIN) Model**



**G2 GEOSCAD2 Topographic ( Pro Version Only )**

1. Auto Generate Cross Section Line
2. Generate TIN from 3D Points
3. Auto Interpolate Spot Level from 3D TIN with Fix Distance.

**G2 GEOSCAD2 Topographic ( Pro Version Only )**



FEATURES LIST	GEOSCAD2 v.23 - DESCRIPTION	STD	PRO
<b>Licensing</b>	Dongle (USB) & Permanent	√	√
<b>Compatibility / Platform</b>	ZWCAD 2018 –2023 ( Std / Pro Module ) AutoCAD 2018 – 2023( Applicable to GEOSCAD2 for AutoCAD Version only )	√	√ (Pro only)
<b>Bearing and Distance ( Auto / Manual Labeling )</b>	- Base on single or group selection of Lines (Entity) - Base 2-Points or Polygon ( Close Boundary ) - Reverse Bearing , Add Bearing Spacing..	√	√
<b>Area (Calculate &amp; Labeling)</b>	- Automatic ( Batch ) - Semi-auto by selecting a Close Boundary. - By selecting multiple Points - Measurements Units ( M2, Ha, Ek, Kp )	√	√
<b>Table</b>	- Bearing Distance / Coordinate Table - 2D Polyline / 3D Polyline Vertex points	√	√
<b>Lot Number / Number ( Labeling )</b>	- Automatic ( Batch ) with User define Option - Manual ( Individual ) Add ( PT / PTD / PTB / PLOT / A / C... ) To Lot Number Add Prefix or Suffix for Number / Text	√	√
<b>Road Width ( Labeling )</b>	- Vertical / Horizontal - Meter / Feet	√	√
<b>Traverse Line ( Functions )</b>	- Auto Plot Boundary / Stn.No. (Bearing & Distance ) - Radiate from Station - Misclose Report - Bowditch / Transit / Crandall / Po and New Adjust - Link Survey Traverse Adjust Misclose	√	√
<b>Insert Symbol Tools</b>	Boundary Marks ( Trim / Without ) Cutting Symbol – Civil Engineer Style ( Fill / Without ) Cutting Symbol – Surveyor Style ( Fill / Without ) Points Symbol ( LP / EP / TP / MH / HWP... ) Insert Stone Number	√	√
<b>Plot House Corner</b>	Plot House Corner	√	√
<b>Spot Level</b>	Change Datum ( Text / Point Level ) Add IL to Spot Height Auto Create Spot Level Text From XYZ Points	√	√
<b>Points</b>	Add, Interpolate, Change Datum Auto Create XYZ Points from Spot Level Text and Vice versa Label Coordinates Points Generate Points from LW Polyline Generate Points From 3D Polyline	√	√
<b>Triangulation ( TIN )</b>	Generate TIN 3D Model (Line) from 3D Points Generate TIN 3D Model (3D Polygon) from 3D Points	o	√
<b>Interpolation</b>	3D Spot Level - Base on 2 Reference 3D Points Intersect 3D Points – Base on Line Drawn Across TIN 3D Model (Line)	√	√
<b>Cross Section &amp; Long Profile</b>	Generate Cross Section from Line drawn across XYZ-points Generate Long Profile from Line drawn across XYZ-points Copy Center Line Point – Select and Create 3D Points with a single Line drawn across XYZ-points	√	√
<b>Pile Survey</b>	Set Pile Number ASCII Output for X Y / Bearing Dist X Y Pile Deviation As-built	√	√
<b>Others</b>	Polyline - Multi B-poly Line - Break Lot Lines	√	√
<b>TEXT</b>	Rotate Text ( Align / Vertical /Horizontal ) Change Text Oblique Angle	√	√
<b>Unit Conversion</b>	For Distance & Spot Levels ( Feet / Meter / Link / Inches ) For Point ( Feet / Meter / Link ) For Area ( Acre / Hectare / Sq Meter / Sq Feet )	√	√
<b>Transformation Coordinate (For West Malaysia States)</b>	GDM 2000 Cassini to WGS84   WGS84 to GDM 2000 Cassini GDM 2000 or Ketau Cassini export to Google Earth (*.kml) Cassini to RSO   RSO to Cassini RSO to MRT   MRT to RSO	√ (v.23)	√ (v.23)
<b>Label Coordinate</b>	Standard / Sabah / Sarawak Format	√	√
<b>Topo Survey</b>	Break line, Swap 3D Triangles, ... Generate 2D Contour Polyline & Label Contour TIN functions : 3D Spot Level with equal space / distance, .. Basic Volume - Calculation	o	√
<b>Road Design Tools</b>	Insert Chainage & Cross Section Line	o	√
<b>Color Chart</b>	TIN / Contour / Slope base on X/Y/Z coordinates	o	√