

# Curriculum Vitae



## 1. Personal

**Name** : *Ahmed Ahmed Elsonbaty*  
**Date and Place of Birth** : *December 26th. 1963, Assiut, Egypt*  
**Affiliation** : *Professor*  
**Nationality** : *Egyptian*  
**Marital Status** : *Married (3 children)*

**Current Address:** *Civil Engineering Department, Faculty of Engineering, University of Assiut, Assiut 71516, EGYPT.*  
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## 2. Academic Qualifications

**1981-1986** *B.Sc. in Civil Engineering Department, University of Assiut, Assiut, Egypt*  
**1988-1992** *M. Sc. in Civil Engineering Department, University of Assiut, Assiut, Egypt.*  
*Title of the Thesis: **Using perspective Projection for Estimating The Accuracy of Measurements in Photogrammetry.***

**1994-1998** *Ph. D. in Engineering Mathematics and Computer Graphics, Technical University Vienna, Austria, 1998.*  
*Title of the Dissertation "**A Solid Modeling Approach for the Design of Milling Tools**"*

## 3. Professional Experience

**July 2010-Present** *Professor at the Department of Civil Engineering, Faculty of Engineering, University of Assiut, Assiut, Egypt.*

**December 2003 – July 2010** *:Associate Professor at the Department of Civil Engineering, Faculty of Engineering, University of Assiut, Assiut, Egypt.*

**Nov.1998-December 2003** *: Assistant Professor at the Department of Civil, Engineering, Faculty of Engineering, University of Assiut, Assiut, Egypt..*

**March 1994- October 1998** *: Doctor student, Institute of Geometry, Technical University of Vienna, Austria.*

**Feb 1992 – March 1994** *: Assistant Lecturer, Faculty of Engineering, University of Assiut, Egypt.*

**Oct. 1986-Feb. 1992** *: Demonstrator (teaching and research assistant), Faculty of Engineering, University of Assiut, Assiut,*

Egypt.

**4. Teaching Experiences:**

**A. Undergraduate Courses Taught**

1. *Plane Surveying*
2. *Photogrammetry*
3. *Geodetic Surveying.*
4. *Descriptive Geometry*
5. *Computer Graphic*
6. *AutoCAD (2D & 3D)*
7. *Design all Civil structures with the help of computer (SAP 2000 )*

**B. Graduate Courses Taught**

1. *Numerical Analysis*
2. *Advanced Engineering Mathematics*
3. *Differential Geometry*
4. *Drawing using Computer*
5. *Computer Languages (Basic, Pascal, Turbo Pascal and Delphi)*

**C. Computer Experience and Software Knowledge**

1. Experienced with Visual Basic, Pascal, Turbo Pascal and Delphi.
2. Experienced AutoCAD and SAP200 Software Packages.
3. Experienced with Many Graphics and Spread Sheets Software Such As Harvard Graphics, Excel and Power Point.
4. Experienced with Many Data Base Design Packages: Access and SQL.
5. Experienced with Many Word Processing Packages such as Microsoft Word and Word Perfect.
6. Experienced with Many Internet Utilities and Web Pages Design.

**5. Books**

- 1- *Descriptive Geometry using Computer*
- 2- *Principles of Computer Drawing*
- 3- *Plane Surveying*

**6. Conferences, Workshops and Seminars**

(1) Conference Name *The 7th International Conference on Engineering Computer Graphics and Descriptive Geometry*

Organization

Research Name *Generating Solids by sweeping Polyhedra*

- Date/Place *July(18-22) 1996/ Cracow ,Poland*
- (2) Conference Name ***International Society of Potogrammetry and Remote Sensing, ISPRS***
- Organization *Technical University*
- Research Name *:Using Homogeneous Coordinates to Solve The Problem of Determination The Orientation Parameters of Non-Metric Cameras and Reconstruction od Space Models*
- Date/Place *July 1996/ Vienna- Austria.*
- (3) Conference Name ***Mathematic Conference and 21 Century***
- Organization *Faculty of Science – Cairo University*
- Research Name
- Date/Place *January 2001/Cairo, Egypt*
- (4) Conference Name ***The Third Scientific Conference on Computer and Their Applications***
- Organization *Applied Science University*
- Research Name *(1) Generating Solids by Sweeping a Solid of Revolution  
(2) A Special Case For Generation of The Enveloping Surface Swept By Polyherdra*
- Date/Place *1. SCCA'2000,11-13,February 2001, Applied Science University, Amman- Jordan.*
- (5) Conference Name ***The Ten<sup>th</sup> International Conference on Geometry and Graphics***
- Organization *National University of Building and Architecture*
- Research Name
- *A New General Method for Determining 3D Measurements Using Single Image.*
  - *Ellipsoidal quasi-stereographic projection of the space elements.*
  - *A new approach about the perspective collineation by quasi-stereographic projection and its applications.*
  - *A Special Case For Determination of the Orientation Parameters of Non Metric Camera and Reconstruction of Space Models using Single Photo*

- Date/Place 28/7-2/8/ 2002, /Kyiv, Ukraine
- (6) Conference Name ***1<sup>st</sup> International Conference on Intelligent Computing and Information System ICICIS 2002, , , - Cairo- Egypt.***
- Organization *Faculty of Computer and Information Science, Ain Shams University*
- Research Name
- Date/Place 24-26 June 2002/ Cairo- Egypt.
- (7) Conference Name ***1<sup>st</sup> International Conference of Civil Engineering Science ICCESI***
- Organization *Faculty of Engineering, Assiut University*
- Research Name *Perspective using traces of the space elements with a reference sphere*
- Date/Place ,7-8 October 2003/ Assiut- Egypt.
- (8) Conference Name ***1<sup>st</sup> International Arabic Conference on Mathematic***
- Organization *Applied Science University*
- Research Name ***Application Of Real Substitute Elements in Graphical Construction Involving Imaginary Elements***
- Date/Place *October 2004/ Amman Jordan*
- (9) Conference Name ***8<sup>th</sup> International Conference on the Global Spatial Data Infrastructure***
- Organization *Egyptian Committee of Surveying and Survey Authority and International Federation Of Surveyors*
- Research Name
- (10) Date/Place *April (16-21)/Cairo, Egypt*
- Conference Name *12<sup>th</sup>International Conference of Geometry and Graphics*
- Organization *Faculty of Eng. Brazil*
- Research Name *4 researches*
- Date/Place *Salvador, Brazil*

## **7. Supervision of M. Sc. Theses**

- 1- K. Hanna,(M.Sc. Theses) “*Perspective Using Traces of Geometrical Elements On A reference Sphere*”,Civil Eng. Dept., Assiut Uni. Supervision Committee Prof. M.S. AbdelLatif, Dr. Y.A. Abass, **A.A. Elsonbaty**, (2004)
- 2- M. M. Bauomy, ,(M.Sc. Theses) , "*Developing a Computer Program to Solve Problems Involving Some Solids and Surfaces in Descriptive Geometry*:", Assiut Uni. Supervision Committee Prof. M.S. AbdelLatif, Dr. Y.A. Abass, **A.A. Elsonbaty** (2004.)
- 3- H. A. Mohammed,(Registration dare: ),” “,Assiut Uni. Supervision Committee Prof. M.S. AbdelLatif, Dr. Y.A. Abass, **A.A. Elsonbaty**.

## **8. Membership in Scientific and Professional Societies**

- 1- Member of the International Journal of Geometry and Graphics (IJGG).
- 2- Member of the Egyptian Engineering Association.

## **9. Areas of Specialization**

- Surveying
- Computer Graphics.
- Drawing using Computer.
- Engineering Mathematics.
- Numerical Analysis.
- Design Civil Structures by using Computer (SAP 2000) .
- Descriptive Geometry

## **10. Awards**

- 1- Assiut University Best Publications in Civil Engineering Dept. , (2003). Research Title “*A Special Case For Determination of the Orientation Parameters of Non Metric Camera and Reconstruction of Space Models using Single Photo*”
- 2- Assiut University Best Publications in Civil Engineering Dept. , (2004). Research Title “*A New General Method for Determining 3D Measurements Using Single Image*”

## **11. Languages**

- 1- Arabic (mother tongue).
- 2- English.
- 3- Germany

## **12. Participation on Academic Committee in Assiut University**

1. Member in Civil Eng. Council, Faculty of Eng., Assiut University.
2. Member in Quality Assurance and Accreditation Projects (QAAP)
3. Member in all handling examination Committee.
4. Supervisor on all Computer laboratories in Civil Eng. Dept., Assiut University.
5. Member in the preparation Committee of curriculum in Civil Eng. Dept.
6. Member in the Engineering Consulting Center in Assiut University

## **List of Publications**

1. Abdel-Latif M.S., A. A-R Mohammed and A. A. Elsonbaty A., “ **On the Orientation Parameters of non-metric Camera**”, ISPRS: pp. 397-401(1992)
2. M. AbdelLatif, A. Elsonbaty, "**Using Homogeneous Coordinates to Solve The Problem of Determination The Orientation Parameters of Non-Metric Cameras and Reconstruction od Space Models**", International Conference of Photogrammetry and Remote Sensing ISPRS, Vienna, Austria,.(1996)
3. A. Elsonbaty, H. Stachel, **Generating Solids by sweeping Polyhedra**, Journal of geometry and Graphics 1 , 13-21.(1997)
4. A. Elsonbaty , "**Generating Solids by Sweeping a Solid of Revolution** ", The 3rd scientific conference on computer and their application, Amman Jordan, SCCA (2001).
5. Abdel latif M.S., A.A. Elsonbaty," **A Special Case For Generation of The Enveloping Surface Swept By Polyherdra**" The 3rd scientific conference on computer and their application, Amman Jordan, SCCA (2001)
6. A. A. Elsonbaty," **A New General Method for Determining 3D Measurements Using Single Image.**",10th International Conference on Geometry and Graphics (ICGG),Kyiv, Ukraine, (2002)
7. A. Elsonbaty, Y.Abbas "**Ellipsoidal quasi-stereographic projection of the space elements**", 10th International Conference on Geometry and Graphics (ICGG),Kyiv, Ukraine,( 2002)
8. Y. Abbas, A. Elsonbaty, "**A new approach about the perspective collineation by quasi-stereographic projection and its applications**",10th International Conference on Geometry and Graphics (ICGG),Kyiv, Ukraine, (2002)
9. M. AbdelLatif, A. Elsonbaty, "**A Special Case For Determination of the Orientation Parameters of Non Metric Camera and Reconstruction of Space Models using Single Photo**" .",10th International Conference on Geometry and Graphics (ICGG),Kyiv, Ukraine, (2002)
10. M. Abdellatif, Y. Abbas, A. Elsonbaty, K. Hanna, "**Perspective using traces of the space elements with a reference sphere**", Journal of Engineering Science, Faculty of Eng., Assiut university, January 2003
11. M.S. AbdelLatif, Y.A.Abbas, A.A. Elsonbaty, K.E. Hanna," **Graphical Treatment involving imaginary Elements**" 1st international Conference of civil eng. Science, ICCES1, V. 1 ,( 2003)
12. M. Ebrahim, A. Elsonbaty, "**The Effect of The Thickness of Glass On The Accuracy Of Photogrammetric Measurements**", Civil Engineering Research Magazine CERM, Al-Azhar Unv. Vol. 24, No. 3, (2002. )
13. H. Mohammed, A. Elsonbaty ,"**E3 Solid Analytic Geometry when Treated with Computational Geometry and Computer Graphics**", (2003)

14. A. Elsonbaty, M. AbdelLatif, " **Application Of Real Substitute Elements in Graphical Construction Involving Imaginary Elements**", 1st International Arabic Conference on Mathematics, Amman, Jordan.(2004 )
15. Ahmed A. Elsonbaty," **3D MEASUREMENTS FROM SINGLE PHOTO USING A KNOWN CIRCLE AND ITS REFLECTION**",12TH international Conference of Geometry and Graphics (ICGG),Salvador, Brazil (2006)
16. . Ahmed A. Elsonbaty and Mohamed Elshafie AbdelLatif," **GRAPHICAL CONSTRUCTION INVOLVING IMAGINARY ELEMENTS** ",12TH international Conference of Geometry and Graphics (ICGG),Salvador, Brazil (2006)
17. . Youssef. A. ABBAS1, Ahmed A. ELSONBATY and Hesham A. MOHAMMED," **AREA DETERMIANTION FOR MERCATOR CYLINDRICAL MAP PROJECTION OF THE ELLIPSOID** ",12TH international Conference of Geometry and Graphics (ICGG),Salvador, Brazil (2006)
18. Mohammed S. AbdelLatif, Youssef A. Abbas, and Ahmed A. Elsonbaty," **A New Method for Solving Position and Metric Problems in Perspective Using a reference Sphere** ",12TH international Conference of Geometry and Graphics (ICGG),Salvador, Brazil (2006)