CURRICULUM VITAE

Personal Information:

Name	: Hany Ramadan Youssef Dwidar.
Date of birth	: June 10th, 1974.
Martial status	: Married.
Military service	: Excepted.
Work Address	: Department of Astronomy
	Faculty of Science
	Cairo University
	Giza
	Egypt 12613
Home Address	: 5 Kamel Sdeky st.
	Ramsis sq.
	Cairo
	Egypt 11271
Phone no.	: +20233804418
Mobile no.	: +201286061337
Work no.	: +20235676842
E-mail	: hanyryd@gmail.com
	hanyryd@cu.edu.eg
URL	: http://scholar.cu.edu.eg/?q=hrydwidar/

Education:

1- Secondary school, Education Home (Language School), JUNE 1992
2- B.Sc. Mathematics, Faculty of Science, Cairo University, May 1996, Very Good degree.
3- Diploma In Space Dynamics, Faculty of Science, Cairo University, Nov 97, Excellent degree.
4- M.Sc. Space Dynamics, Faculty of Science, Cairo University, Feb 2002. Title is " Orbit Design For A Flyover Mission With Allowance To The Effect Of Oblateness , Drag And Radiation Pressure".
5- PhD Space Dynamics, Faculty of Science, Cairo University, Nov 2007. Title is "Analysis of the Attitude Motion of a Satellite of an Oblate Earth".

Positions:

1) **Demonstrator** (Jan 1997 – Mar 2002)
   Astronomy Department, Faculty of Science, Cairo University**.**
2) **Assistant Lecturer** (Apr 2002 – Oct 2007)
   Astronomy Department, Faculty of Science, Cairo University**.**
3) **Lecturer** (Nov 2007 up till now)
   Astronomy Department, Faculty of Science, Cairo University**.**
4) **Researcher** **(**Apr 2008 -Sep 2011**) (Part Time)**
   Applied Mathematics Department, Physics Division, National Research Centre
5) **Assistant Professor (**Sep 2011-Sep 2013**)**
   Department of Mathematics and statistics, Faculty of Science, King Faisal University

Fields Of Interest
- Attitude Dynamics and Control
- Astrodynamics & Orbital Mechanics
- Orbit Determination
- Dynamical System

Attendance in Seminars, Training, workshop and Schools
1. All the seminars in the Department of Astronomy, Faculty of Science, Cairo University.
2. Eight International Conference on Aerospace Sciences and Aviation Technology, 4 – 6 May 1999, Military Technical Collage, Cairo, Egypt.
3. Using Technology In Education, FLDP, Cairo University, 31july 2007.
4. 1st International Conference "Quality and accreditation between reality and ambition", 15 April 2008, Cairo, Egypt.
5. A training Course in "E-Learning", 25 Dec 2008, Cairo,Egypt.
6. Workshop " The Ionosphere and its Effects on GNSS Systems", 10-13 Jan 2010, Cairo, EGYPT.
7. 38th COSPAR Scientific Assembly, 18- 25 July 2010, Bremen, Germany.
8. School and Conference on Computational Methods in Dynamics, 20th June-9th July 2011,ICTP. ITALY

Publications and Conferences:
1. M.A.Sharaf, M.E.Awad, Z.M.Hayman and H.R.Dwidar, "Continued Fraction Evaluation Of $\mathbf{J_n(x)/J_{n-1}(x)}$", IAGA International Symposium, October 5-9, 2008, Cairo, Egypt.

2. M.A. Sharaf, H.R. Dwidar and W.N. Ahmed, "Analytical Expressions for the Physical Characteristics Near Interior Points of Polytrops", The 2nd International Conference on Advanced Materials & their Applications, April 6-8,2010, NRC, Cairo, Egypt.

3. M.A. Sharaf and H.R. Dwidar, "Optimum delta-V Maneuver for Refueling Space Stations", The 2nd International Conference on Advanced Materials & their Applications, April 6-8,2010, NRC, Cairo, Egypt.

4. Dwidar, Hany; Sharaf, Adel; Hassan, Inal, "Data Analysis of the Mean Atmospheric CO2 1959-2005", 38th COSPAR Scientific Assembly, 18- 25 July 2010, Bremen, Germany.

5. Owis Ashraf H., Mohammed Hani M., Dwidar Hany, Mortari Daniele, "GPS Satellite Range and Relative Velocity Computation", Theory and Applications of Mathematics & Computer Science 2 (1) , p53-60, (2012).

6. Owis, H.A., Mohammed, H.M., Dwidar, H., and Mortari, D. "Accurate Doppler Shift Computation of an Artificial Satellite," First International Conference on New Trends and Applications of GNSS, Cairo - Giza (Egypt), Sep. 1-4, 2012.

7. Daniele Mortari, Jeremy J.Davis, Ashraf Owis, Hany Dwidar, "Reliable Global Navigation System using Flower Constellation", International Journal of Advanced Computer Science and Applications (IJACSA)*,* 4(2), p260-266, (2013).

8. Mohmmed, Hani M.; Ahmed, Mostafa K.; Owis, Ashraf ; Dwidar, Hany, " Analytical Solution of the Perturbed Oribt-Attitude Motion of a Charged Spacecraft in the Geomagnetic Field ", International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 4(3), pp. 272 - 286 (2013).

9. Hany R. Dwidar, Ashraf H. Owis, "Relative Motion of Formation Flying with Elliptical Reference Orbit", International Journal of Advanced Research in Artificial Intelligence (IJARAI), Vol. 2(6), pp. 79 - 86, (2013).

10. Hany R. Dwidar, " Prediction of Satellite Motion under the Effects of the Earth's Gravity, Drag Force and Solar Radiation Pressure in terms of the KS-regularized Variables", International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 5(5), pp. 35-41, (2014).

11. Hany R. Dwidar, "Semi-Analytical and Numerical Solution of Regularized Burdet Equations to Predict the Motion of an Artificial Satellite", *American Journal of Applied Mathematics,* Vol. 2(3), pp. 85-91, (2014).

12. Hany R. Dwidar, Adel Sharaf, "Statistical Magnitude Analysis and Distance Determination of the Nearby F8V Stars", *Engineering, Technology & Applied Science Research,* Vol. 4(4), pp. 681-685, (2014).

Grants/ Awards

- Research member in a Military Project, Space Science Research Center, Cairo University 2003-2009.
- Research member in Islamic Satellite Project, Space Science Research Center, Cairo University 2003-2006.
- Research member in the research project entitled " Feedback optimal control of   formation flying satellites with J_2 " funded STDF within the framework of the German-Egyptian Scientific cooperation program 2009-2011.
- Research member in the research project entitled " Reliable Global Navigation System Using Flower Constellations" funded STDF within the framework of the USA-Egyptian Scientific cooperation program 2010-2011.

Work Experience:

Sep 1996 to June 2007:

I worked as a teaching assistant at Astronomy Department, faculty of Science, Cairo University for undergraduate students. I taught orbital calculations lab, linear programming lab, Astronomical applications on the computer lab and lab in analysis and computer.

Sep 2007 up till now:

I worked as a Lecturer in Cairo University, Faculty of Science, Astronomy Department. I taught restricted three body problem, Theory of Artificial satellites, Geodesy, Celestial Mechanics, Mathematical Astronomy, Classical Mechanics, Topology, Differential Geometry , Dynamical Systems, Spacecraft Attitude Dynamics, Space Dynamics and perturbation methods for under and post graduate students.

April 2008 to Sept 2011 :
    I assign (work as a part time) at applied mathematics department, Physics Division, National Research Centre.

Sep 2011 up Sep 2013
    I worked as assistant professor in King Faisal University, Faculty of Science, Mathematics Department. I taught General mathematics, Linear Algebra, Calculus I, Calculus III, Real Analysis, Numerical Analysis, Calculus of Variations, Statics, Classical Mechanics, Complex Analysis and Mechanics of Materials for under graduate students.

Programming Language :
C++   (Very Good)
Matlab   (Good)
Mathematica 6   (Good)
Fortran   (Fair)
Java   (Fair)

Important Software Packages
Microsoft Office   (Very Good) except Access
OriginPro 8   (Fair)
Latex (WinShell & TeXnicCenter)   (Very Good)
Adobe Photoshop & PaintShopPro   (Very Good)

Language:
English   (Very good)