

PERSONAL INFORMATION



Islam A. Mansour

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Gender Male | Date of birth 1 March 1993 | Nationality Egyptian

PERSONAL STATEMENT

A highly motivated and hardworking individual, who is a senior student achieving excellent grades alongside good practical experiences. The eventual goal is to become an experienced space engineer based on a combination of experience in both academia and space industry, with a passion for a lifelong-learning.

EDUCATION AND TRAINING

Sep 2014 – Expected Feb 2017

Bachelor of Science (B.S.) in Astronautical Engineering

ISCED 6

Istanbul Technical University, Istanbul (Turkey)

- Relevant Coursework: Spacecraft Systems Design, Automatic Control, Attitude Determination and Control, Orbital Mechanics, Structural and Mechanical Vibration
- Cumulative GPA: 3.40 / 4.00 (Honor List)

Sep 2015 – Feb 2016

Erasmus+ Exchange Student

Brno University of Technology, Brno (Czech Republic)

- Completed 37.5 ECTS, GPA 3.69 / 4.00

Sep 2011 – Jun 2014

Aerospace Engineering Undergrad Student

(transferred to Istanbul Technical University)

Cairo University, Cairo (Egypt)

- General Grade: Very Good

Sep 2009 – Jun 2011

Diploma of Associate Engineering (D.A.E) in Building and Construction

Industrial Technical Institute Matria, Cairo (Egypt)

- General Grade: Excellent (24-Courses)
- Percentage: 95.77%

RESEARCH & WORK EXPERIENCE

Aug 2016 – Sep 2016

Aircraft Maintenance Support Intern

Turkish Technic Inc., Istanbul (Turkey)

- Worked in a maintenance management services team carrying out assigning and coordinating of maintenance management in the TRAX Maintenance Software
- Ensured and maintained of Aviation Regulations Updates up-to-date provided by EASA and FAA under the fluid and fuel subsystem according to the ATA numbering system

Jul 2016 – Aug 2016

Summer Intern

Space Systems Design and Testing Laboratory

Istanbul Technical University, Istanbul (Turkey)

- Designed & analyzed of a modular CanSat rocket
- Optimized the rocket structures from the available local materials
- Configured the rocket structures for different types of motor cases

Jul 2016 – Jul 2016 **On-Orbit Manufacturing Participant (Team Member)**

Space Station Design Workshop (SSDW2016)

Institute of Space Systems (IRS), University of Stuttgart, Stuttgart (Germany)

- Project: Participated in a week-long workshop to design a space station in cis-lunar space from a three operation phases start from the year 2025, which provide capabilities of a future base of on-orbit manufacturing as a platform for deep space exploration.
- Supervisor : Prof. Dr. Reinhold Ewald

Dec 2012 – Jul 2014 **R&D Undergraduate Student**

Space Systems Technology Laboratory (SSTL)

Cairo University, 12613 Cairo (Egypt)

- Initiated the SSTLAB First Space Rover for the University Rover Challenge Competition in USA, 2014 and ranked 9th out of 31st teams.
- Developed the Rover-Back CanSat which was participated in ARLISS 2014 Competition in Nevada, USA, September 8-11, 2014.
- Development of Rover-Back CanSat for the Iranian CanSat Competition, 2013, and ranked the fifth.
- Tested solid rocket motors for CanSat.

Jun 2013 – Sep 2013 **Summer Intern**

Aeronautical System Technology Lab (ASTL)

Cairo University, 12613 Cairo (Egypt)

- Project: Additive Manufacturing Trends in Aerospace and RC Flight Training
- Focus: RC Flight Training, CNC Machine, Laser Cutting Machine, Composite Forming Techniques.

Nov 2012 – Apr 2013 **Intern**

Unmanned Aerial Systems Development Center (UDC)

Cairo University, 12613 Cairo (Egypt)

- Project: Design, Build, & Fly of an RC Aircraft with a wingspan of 1.8m
- Focus: A simulated Remote Control, RC Aircraft, Manufacturing Techniques.

PERSONAL SKILLS

Mother tongue Arabic

Other languages English: Fluent (speaking, reading, writing).
German: Basic (speaking, reading, writing)
Russian: Basic (speaking, reading, writing)
Turkish: Intermediate (reading); basic (speaking, writing)

Communication skills – team work: I have worked in various types of teams (research, volunteer, technical projects). For almost 7 years.
– intercultural skills: I am able to work with people from different cultural groups effectively, I have been living and visiting in 9 different countries.

Organisational / managerial skills – whilst studying at the first year, I became a Co-Founder of KVector Foundation, 2012
– during my BS I organized a seminar series on search method using Google & Tor Project

- Computer skills**
- Programming
 - Matlab: Proficient C#: Basic Mathematica: Basic LabVIEW: Basic
 - C/C++: Intermediate Python: Basic μ C Programming: Basic
 - Web design
 - HTML: Intermediate Adobe Dreamweaver: Intermediate
 - Finite element analysis
 - ANSYS Mechanical APDL ANSYS Fluent
 - Aerospace
 - Basic knowledge of XFOIL, Java Astrodynamics Toolkit, Systems Tool Kit (STK)
 - Software
 - $T_E X$ CorelDRAW Adobe Photoshop Adobe Acrobat Pro OpenRocket
 - AutoCAD SolidWorks CATIA Adobe Illustrator Microsoft Office
 - Operating system
 - Linux: Ubuntu & Mint Windows: 10

Other skills Self-learning (Software Defined Radio, Designing PCBs, SMD soldering), Teamwork, Management, Creativity, Critical Thinking, Work Hard Under Pressure, Analytical Thinking, Flexibility, Traveling.

ADDITIONAL INFORMATION

Research interests System Engineering, Control Engineering, Spacecraft Design, Fluid Mechanics, Robotics and Control, Signal Processing.

Interests Amateur Astronomy, Amateur Radio, Digital photography, Radio Astronomy, swimming.

Honours and awards

- The 1st place of the SSDW, Institute of Space Systems (IRS), University of Stuttgart, Stuttgart, Germany, 2016.
- Honor List during the whole period of study at Istanbul Technical University, 2016.
- Erasmus+ Scholarship, Istanbul Technical University, 2015.
- Participation of University Rover Challenge, Mars Society, USA, 2014.
- Participation of the 3rd Iran Cansat Competition, Astronautics Research Institute of the Iranian Space Research Center, Iran, 2013.
- Certificate of Appreciation for the Distinguished Efforts in the 3rd Annual Cairo Science Festival, American University in Cairo, Egypt, 2012.

Projects

- Radio astronomy based on the RTL-SDR receiver for a personal use, 2016.
- The ITU Rocket for the Experimental Sounding Rocket Competition, USA, 2016
- The SSTLAB First Space Rover for the University Rover Challenge Competition, ranked 9th out of 31st teams, USA, 2014.
- Rover-Back CanSat for the Iranian CanSat Competition, 2013, and ranked the fifth.in
- Rover-Back CanSat which was participated in ARLISS 2014 Competition in Nevada, USA, 2014.
- Robot for the Angry Birds Competition, Robotics Olympics - IEEE CUSB, Cairo, Egypt, 2012.
- Building home-made telescope, Cairo, Egypt 2010.

[CV compiled on October 7, 2016 for Mansour's Personal Website]