

PERSONAL INFORMATION



Islam A. Mansour

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Sex Male | Date of birth 01/03/1993 | Nationality Egyptian

PERSONAL STATEMENT

A highly motivated and hardworking individual, who is studying space engineering and 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 – Feb 2017

Bachelor of Science in Aerospace Engineering

Istanbul Technical University, Istanbul, Turkey

- Graduation Project: Design and Analysis of a Modular CanSat Rocket
- Cumulative GPA: 3.38 / 4.00 (Honour List)

Sep 2015 – Feb 2016

Erasmus+ Exchange Student

Brno University of Technology, Brno, Czech Republic

- Completed 42 ECTS; GPA 3.67 / 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

- Percentage: 95.77%

WORK EXPERIENCE

Aug 2016 – Sep 2016

Aircraft Maintenance Support Intern

Turkish Airlines (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
- Focus: Aircraft Maintenance Management, Aviation Regulations, Aircraft Fluid and Fuel Systems.

Jul 2016 – Aug 2016

Rocket Designer (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

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.

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.

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.

PERSONAL SKILLS

Computer skills

- Programming
 MATLAB: Proficient μC Programming: Basic Mathematica: Basic LabVIEW: Basic
 C/C++: Intermediate Python: Intermediate SQL: Intermediate C#: 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
 TEX CorelDraw Adobe Photoshop Adobe Acrobat Pro OpenRocket
 AutoCAD SolidWorks CATIA Adobe Illustrator Microsoft Suite
- Operating system
 Linux: Ubuntu & Mint Windows: 10

Languages

English: Fluent; Arabic: Native; Turkish: Intermediate

Communication skills

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

Organizational / managerial skills

- whilst studying at the first year, I became a Co-Founder of K-Vector Foundation, 2012. during my BS I organized a seminar series on search method using Google & Tor Project.

Other skills

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

ADDITIONAL INFORMATION

Projects

- Design and Analysis of a Modular CanSat Rocket, Istanbul, Turkey, 2017.
- 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, and ranked the fifth, 2013, Iran.
- 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.

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 3rdIran CanSat Competition, Astronautics Research Institute of the Iranian Space Research Center, Iran, 2013.
- Certificate of Appreciation for the Distinguished Efforts in the 3rdAnnual Cairo Science Festival, American University in Cairo, Egypt, 2012

Memberships

- Member, the American Institute of Aeronautics and Astronautics (AIAA), 2015-2016.
- Member, the Space Generation Advisory Council (SGAC), 2015-2016.
- Member, the Astronomical Society of Mahmoud Mosque (ASMM), Giza, Egypt, 2009-2015.

Interests

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

Research interests

- System Engineering, Control Engineering, Spacecraft Design, Robotics and Control, Signal Processing.

References

- Prof. Dr. Alim Rüstem ASLAN
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