

PERSONAL INFORMATION



**Islam A. Mansour**

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Sex Male | Date of birth 01/03/1993

EDUCATION AND TRAINING

Sep 2014 – Feb 2017

**Bachelor of Science in Aerospace Engineering (Minor Mechatronics)**

**Istanbul Technical University**, Istanbul, Turkey

- **Relevant Coursework:** Automatic Control, Structural and Mechanical Vibrations, C Programing, Attitude Determination and Control, Orbital Mechanics, Numerical Methods, Differential Equations
- Cumulative GPA: 3.38 / 4.00 (Honor List)

Sep 2015 – Feb 2016

**Erasmus+ Exchange Student**

**Brno University of Technology**, Brno, Czech Republic

- **Relevant Coursework:** Kinematics and Dynamics of Mechatronic Systems, Sensorics and Elements of Artificial Intelligence
- 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

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

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 31<sup>st</sup> 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     $\mu$ C Programming: Basic    Mathematica: Basic    LabVIEW: Basic  
 C/C++: Intermediate    Python: Intermediate    SQL: Intermediate    C#: Basic
- Web design  
 HTML: Intermediate    Adobe Dreamweaver: Intermediate
- 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, Arduino, STM32 Nucleo electronics), Teamwork, Creativity, Critical Thinking, Work Hard Under Pressure, Analytical Thinking

### 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 9<sup>th</sup> 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 1<sup>st</sup> 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.
- Certificate of Appreciation for the Distinguished Efforts in the 3rd Annual Cairo Science Festival, American University in Cairo, Egypt, 2012

#### Interests

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

#### Research interests

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