

# Islam Mansour

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## EDUCATION

### **Istanbul Technical University**, Istanbul, Turkey

- Bachelor of Science (B.S.) in Astronautical Engineering Sep 2014 – expected Feb 2017
  - Relevant Coursework: Spacecraft Systems Design, Automatic Control, Attitude Determination and Control, Orbital Mechanics, Structural and Mechanical Vibration.
  - Honor List.
  - Cumulative GPA: 3.40 / 4.00

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

- Erasmus+ Exchange Programme Sep 2015 – Feb 2016
  - Cumulative GPA: 3.69 / 4.00

### **Cairo University**, Cairo, Egypt

- Undergraduate Student (transferred to Istanbul Technical University) Sep 2011 – Jun 2014
  - Cumulative GPA: 3.32 / 4.00

### **Industrial Technical Institute Matria**, Cairo, Egypt

- Diploma of Associate Engineering (D.A.E) in Building and Construction Sep 2009 – Jun 2011
  - General Grade: Excellent (24-Courses)
  - Percentage: 95.77%

## RESEARCH EXPERIENCE

### **Spacecraft Systems Design**, Istanbul Technical University

- Undergraduate Research Student, Aerospace Engineering Department Feb 2016 – Present
  - Project: Designing a Virtual Reality Cube-Sat.
  - Supervisor: Prof. Dr. Alim Rüstem ASLAN
  - Focus: System Engineering, Attitude Determination, Spacecraft Design.

### **Space Systems Technology Laboratory (SSTL)**, Cairo University

- Undergraduate Research Student, Aerospace Engineering Department Dec 2012 – Jul 2014
  - Project: Control & Design of Can-SAT, ROVER, Quad-copter, Rocket.
  - Supervisors: Prof. Dr. Mohammed Khalil Ibrahim
  - Focus: Can-Satellite, Quad-copter, ROVER, Rocket, Embedded Systems.

### **Aeronautical System Technology Lab (ASTL)**, Cairo University

- Summer Intern, Aerospace Engineering Department Jun 2013 – Sep 2013
  - Project: Additive Manufacturing Trends in Aerospace and RC Flight Training
  - Focus: RC Flight Training, CNC Machine, Laser Cutting Machine, Composite Forming Techniques.

### **Unmanned Aerial Systems Development Center (UDC)**, Cairo University

- Student Participant, Aerospace Engineering Department Nov 2012 – Apr 2013
  - Project: Fabrication & Flight Testing of an RC Aircraft
  - Focus: A simulated Remote Control, RC Aircraft.

## AWARDS & SCHOLARSHIPS

- Erasmus+ Scholarship, Istanbul Technical University Sep 2015 – Feb 2016  
For attaining a high GPA & English language exam.
- Participation of University Rover Challenge 2014, Ranked 9th, Mars Society, USA May 2014  
Design and build the next generation of Mars rovers that will one day work alongside human space exploration.
- Third Iran Cansat Competition, Ranked 7th 2013  
Astronautics Research Institute of the Iranian Space Research Center, Iran  
Atmospheric Sounding Mission Category.
- Certificate of Appreciation, American University in Cairo, Egypt 2012  
For the Distinguished Efforts in the Third Annual Cairo Science Festival.

## PROFESSIONAL AFFILIATIONS & ACTIVITIES

### **The American Institute of Aeronautics and Astronautics (AIAA)**

- Member 2015 – Present

### **The Space Generation Advisory Council (SGAC)**

- Member 2015 – Present

**The Astronomical Society of Mahmoud Mosque (ASMM), Giza, Egypt**

▪ Member

2009 – 2015

**CAMPUS  
ACTIVITIES**

**İTÜ Rocket Team, Istanbul Technical University**

- Undergraduate Research Student, Aerospace Engineering Department
  - Project: Designing a Solid Rocket for the Intercollegiate Engineering Competition.
  - Focus: Rocket, Design, Control Unit.

Feb 2016 – Present

**Science Communication, American University in Cairo, Egypt**

- Volunteer
  - Participate in events such as Family Science, Star Gazing, Cairo Science Festival.

Nov 2011 – Aug 2012

**OTHER WORK  
EXPERIENCE**

**K vector Foundation, Cairo university, Egypt**

- CEO, Academic Division Head
  - The aim to build a total Egyptian car's factory.
  - Providing workshops for engineering students to polish their experience.

Dec 2011 – Aug 2012

**LANGUAGES**

- Arabic: Native language.
- English: Fluent (speaking, reading, writing).
- Turkish: Intermediate (reading); basic (speaking, writing).

**COMPUTER  
SKILLS**

- Programming
  - Matlab: Proficient    C/C++: Intermediate    LabVIEW: Basic    Mathematica: Basic
  - C#: Basic    Python: Basic    µC Programming: Basic
- Web design
  - HTML: Intermediate    Adobe Dreamweaver: Intermediate
- Finite element analysis
  - ANSYS Mechanical APDL
- Aerospace
  - Basic knowledge of XFOIL, Java Astrodynamics Toolkit, Systems Tool Kit (STK)
- Software
  - TeX    X<sub>Y</sub>LaTeX    Microsoft Office    Adobe Photoshop    Adobe Acrobat Pro
  - AutoCAD    SolidWorks    CATIA    Adobe Illustrator    CorelDRAW
- Operating system
  - Linux: Ubuntu & Mint    Windows: 10

**SKILLS**

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

**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.

**REFERENCES**

▪ **Prof. Dr. Alim Rüstem ASLAN**

Professor & Head of Space Systems Design and Test Laboratory  
Istanbul Technical University  
Faculty of Aeronautics and Astronautics, ISTANBUL 34469, Turkey  
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▪ **Prof. Dr. Mohammed Khalil Ibrahim**

Professor & Head of Aerodynamics Group  
Cairo University  
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[CV compiled on 2016-09-03 for TÜBİTAK]