

PERSONAL INFORMATION



PERSONAL STATEMENT

Islam A. Mansour

📍 Maros utca 50, 1237 Budapest, Hungary

☎ +36 70 355 8760

✉ is3mansour@gmail.com

🔗 islamalam.github.io

💬 Skype islam.alam.m

A highly motivated and hardworking individual, who is a space engineer and during the study achieved excellent grades alongside good practical experiences. The eventual goal is to obtain Ph.D. in the field of the space science and engineering to gain experience in both academia and 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, top 5 percent of the class)

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

Jul 2017 – Present

System Developer (R&D Engineer)

Robert Bosch, Budapest, Hungary

- Developing functions for Automotive Advanced Driver Assistance and Automated Driving
- Implementing software and algorithm for automated driving (model based design as well as embedded programming)
- Developing and improving the system architecture (modification) in the area of mechanics, sensors, HW or SW based on internal and external customer requirements
- Responsible for requirement management and development for various project domains

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.
 - Developed 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 3rd Annual 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
Professor & Head of Space Systems Design and Test Laboratory
Istanbul Technical University
Faculty of Aeronautics and Astronautics, Istanbul 34469, Turkey
aslanr@itu.edu.tr
+90 212 285 7189/136
- Prof. Dr. Mohammed Khalil Ibrahim
Professor & Head of Aerodynamics Group
Cairo University
Faculty of Engineering, Aerospace Engineering Dept., Cairo University, Giza 12613, Egypt
mkhalil@cu.edu.eg
+96 656 308 5093