Islam A. Mansour

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PERSONAL STATEMENT

An open-minded, highly motivated and hard-working individual, who is a fresh graduate with excellent academic achievement alongside professional experiences. The eventual goal is to become an experienced space engineer based on a combination of experience in both academia and industry, with a passion for a lifelong learning

EDUCATION

Istanbul Technical University, Istanbul, Turkey

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

Sep 2014 – Feb 2017

- Relevant Coursework: Spacecraft Systems Design, Rocket Propulsion, Space Environment, Spacecraft Communications, Attitude Determination and Control, Orbital Mechanics, Numerical Methods, Linear Algebra
- Graduation Project: Design and Analysis of a Modular CanSat Rocket
- · Honour List.
- Cumulative GPA: 3.38 / 4.00

Brno University of Technology, Brno, Czech Republic

■ Erasmus+ Exchange Programme

Sep 2015 – Feb 2016

• Cumulative GPA: 3.67 / 4.00 Cairo University, Cairo, Egypt

Undergraduate Student (transferred to Istanbul Technical University)

Sep 2011 - Jun 2014

Cumulative GPA: 3.42 / 4.00

Industrial Technical Institute Matria, Cairo, Egypt

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

Sep 2009 - Jun 2011

• Percentage: 95.77%

WORK **EXPERIENCE**

Turkish Technic Inc., Istanbul, Turkey

Aircraft Maintenance Support (Intern)

Aug 2016 - Sep 2016

- Worked in a maintenance management services team
- · Coordinated of maintenance managements in the TRAX Maintenance Software
- · Ensured and maintained updates of Aviation Regulations

Space Systems Design and Testing Laboratory, Istanbul, Turkey

■ Rocket Designer (Intern)

Jul 2016 - Aug 2016

- Designed & analysed of a modular CanSat rocket • Developed MATLAB codes to improve simulations
- Optimised the rocket structures from available local materials

RESEARCH **EXPERIENCE**

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

- On-Orbit Manufacturing Participant, Space Station Design Workshop 2016 Jul 2016 - Jul 2016
 - · 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

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

PROJECTS Spacecraft Systems Design, Istanbul Technical University • Undergraduate Research Student, Aerospace Engineering Department Feb 2016 - Jun 2016 • Project: Designing a Virtual Reality Cube-Sat • Determined all the orbital elements for Sun-synchronous orbit · validated Gyro, Magnetometer & GPS measurements for Attitude Control based on 3 Magnetorquers • Supervisor: Prof. Dr. Alim Rüstem ASLAN • Focus: System Engineering, Attitude and Orbital Control Systems, Spacecraft Design **AWARDS &** Ranked 1st team during SSDW2016, Institute of Space Systems, University of Stuttgart Jul 2016 Design space station for deep space exploration **SCHOLARSHIPS** • Erasmus+ Scholarship, Istanbul Technical University Sep 2015 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 ■ Third Iran Cansat Competition, Ranked 7th 2013 Astronautics Research Institute of the Iranian Space Research Center, Iran Atmospheric Sounding Mission Category 2012 Certificate of Appreciation, American University in Cairo, Egypt For the Distinguished Efforts in the Third Annual Cairo Science Festival **PROFESSIONAL** The American Institute of Aeronautics and Astronautics (AIAA) **AFFILIATIONS** 2015 - Present Member & ACTIVITIES The Space Generation Advisory Council (SGAC) Member 2015 - Present The Astronomical Society of Mahmoud Mosque (ASMM), Giza, Egypt Member 2009 - 2015**CAMPUS** İTÜ Rocket Team, İstanbul Technical University ACTIVITIES • Undergraduate Research Student, Aerospace Engineering Department Aug 2015 - Dec 2016 • Project: Designing a Solid Rocket for the Intercollegiate Engineering Competition. • Focus: Rocket, Design, Control Unit. **Science Communication**, American University in Cairo, Egypt Volunteer Nov 2011 - Aug 2012 • Participate in events such as Family Science, Star Gazing, Cairo Science Festival. OTHER WORK K vector Foundation, Cairo university, Egypt **EXPERIENCE** CEO, Academic Division Head Dec 2011 - Aug 2012 • The aim to build a total Egyptian car's factory. • Providing workshops for engineering students to polish their experience. **COMPUTER** Programming Matlab: Proficient C/C++: Intermediate LabVIEW: Basic Mathematica: Basic **SKILLS** 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 X3IATEX Microsoft Office Adobe Photoshop Adobe Acrobat Pro AutoCAD SolidWorks CATIA Adobe Illustrator CorelDRAW

Operating system

Linux: Ubuntu & Mint Windows: 10

SKILLS Open-minded, Self-learning (Software Defined Radio, Designing PCBs, SMD soldering), Teamwork,

Management, Creativity, Critical Thinking, Work Hard Under Pressure, Analytical Thinking, Flexibility

LANGUAGES • Arabic: Native language

■ English: Fluent

■ Turkish: Intermediate

RESEARCH

Spacecraft Control, Control Engineering, Spacecraft Design, Robotics and Control, Orbital Mechanics

INTERESTS

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

Faculty of Engineering, Aerospace Engineering Dept., Cairo University, Giza 12613, Egypt

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[CV compiled on 2017-05-16 for Chalmers]