

# SELF INTRODUCTORY

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Presented By / Eng. Mohammed Ali Abo Arais

Embedded Systems Engineer

Egyptian Space Program

NARSS "National Authority for Remote Sensing and Space Sciences"



# Education:

- Msc Student ,Computer and Systems Engineering Ain Shams University, Egypt (Jan 2015 –now)
- B. Sc. of Engineering, Department of Electrical Engineering, Communications and electronics departement
- Alexandria University,Egypt,Class: 2013



# Work Experience :

- CubeSat Systems Engineer-Satellites Systems Development and testing lab  
Egyptian Space Program  
NARSS "National authority for remote sensing and space sciences "(November 2015 till now)
- PSC “Planetarium Science Center” -Bibliotheca Alexandrina (Aug 2014 till October 2015)
  - Technical Leader-Space Technology Program (Aug 2014 till May 2015 Part Time -- May 2015 till October 2015 Full Time)
  - Robotics Engineer (June 2015 till October 2015):
- Cofounder and Executive-Manger at Openware Lab (March 2015 till December 2015)
- Misr Concrete Development Co-NCCD Electro-mechanics Engineer (April 2014-May 2015)



# Social activities:

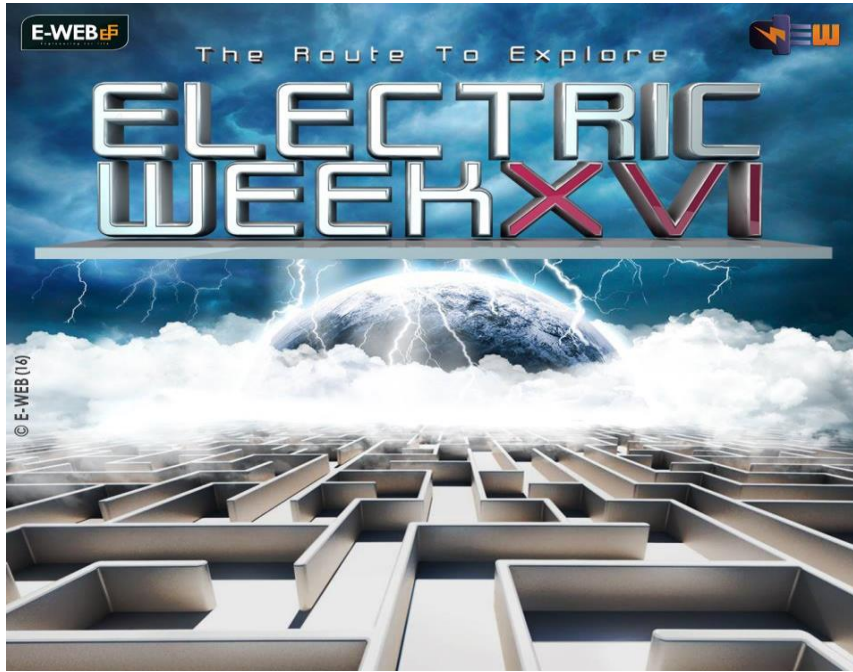
- Volunteer at icealexandria community 2014.
- PR and Marketing Volunteer for E-WEB “Engineering WEB” Association 2013.
- Co-founder and Treasurer “Executive Board Member” of E-WEB “Engineering WEB” Association 2012.
- Co-founder of “Electric Week” Conference 2011.
- Delegate of Communications&Electronics Department at union Delegates of faculty of engineering 2011.
- Communication &Electronics (2010-2013) Vice Representative 2011.
- R&D volunteer at Science Committee Student Union, Faculty of Engineering 2010.
- PR &fund. Volunteer at EPC “Engineering Placement Conference” 2010.
- Volunteer at CBR caritas|Egypt 2005.



# Social activities:

E-WEB :

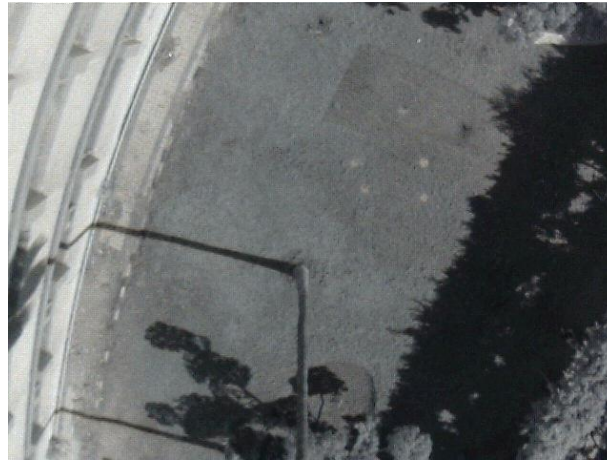
<https://www.facebook.com/EngineeringWeb/?fref=ts>



ENGINEERING  
FOR LIFE



# Space Technology Program Planetarium Science Center (PSC) - Bibliotheca Alexandrina

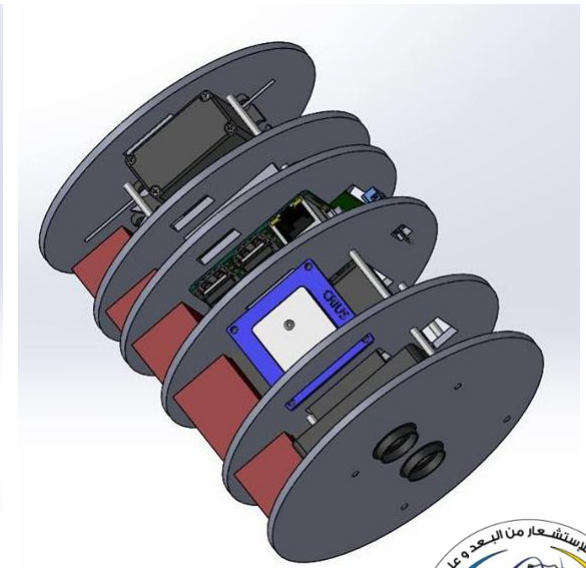
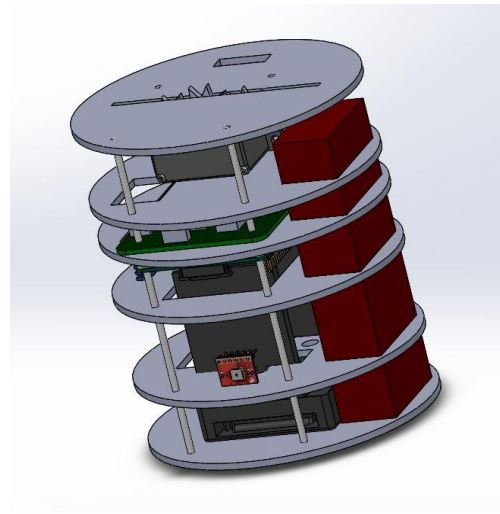


# Space Technology Program Planetarium Science Center (PSC) - Bibliotheca Alexandrina



# Space Technology Program Planetarium Science Center (PSC) - Bibliotheca Alexandrina

4 cansat Prototypes  
3 Research papers  
2 Research posters





# Space Technology Program Planetarium Science Center (PSC) - Bibliotheca Alexandrina

## NASA Space Apps Competition



# NARSS-Educational Satellites Program

The main objectives of this program is to graduate new generation of Egyptian Engineers that has a theoretical and practical experience in space technologies Fields.

1. Designing and development of CubeSat subsystems modules within graduation projects.
2. Gradually designing , development and test of 1<sup>st</sup> Egyptian universities CubeSat  
**(EgyUniverSat\_1) @2020** by Egyptian students



# NARSS-Educational Satellites Program



Step 1 :

Theoretical  
Training to  
gain the  
Space  
Knowledge



# NARSS-Educational Satellites Program

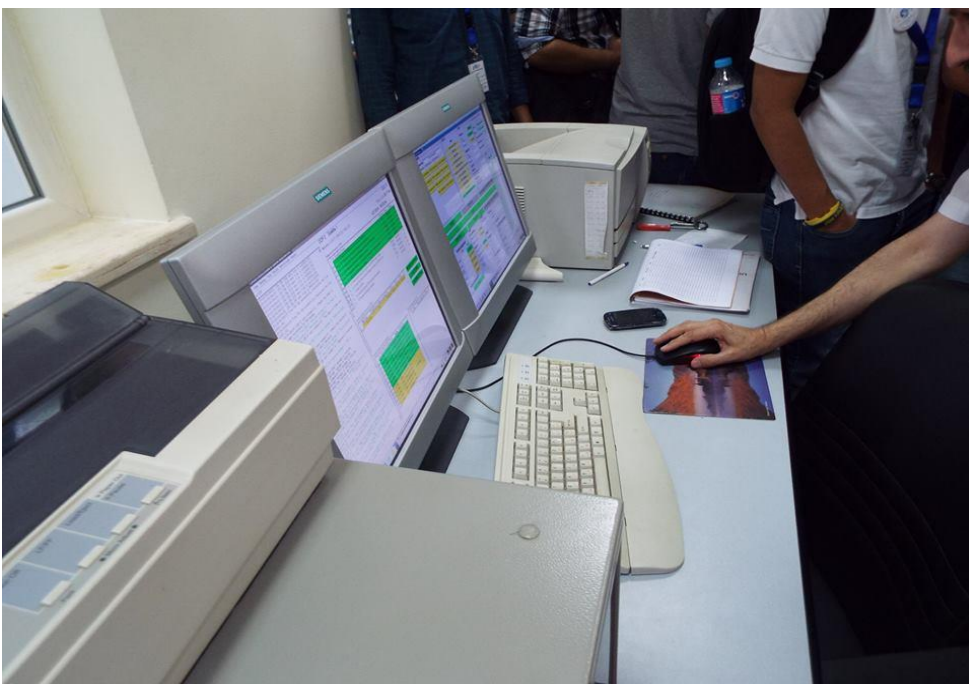


Step 2 :

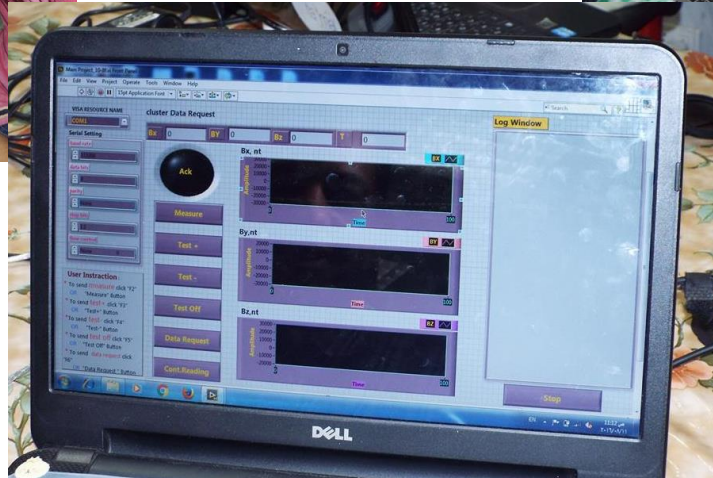
Field Trip to  
the Space  
Operation  
Center at  
the new  
Cairo



# NARSS-Educational Satellites Program



# NARSS-Educational Satellites Program



# NARSS-Educational Satellites Program

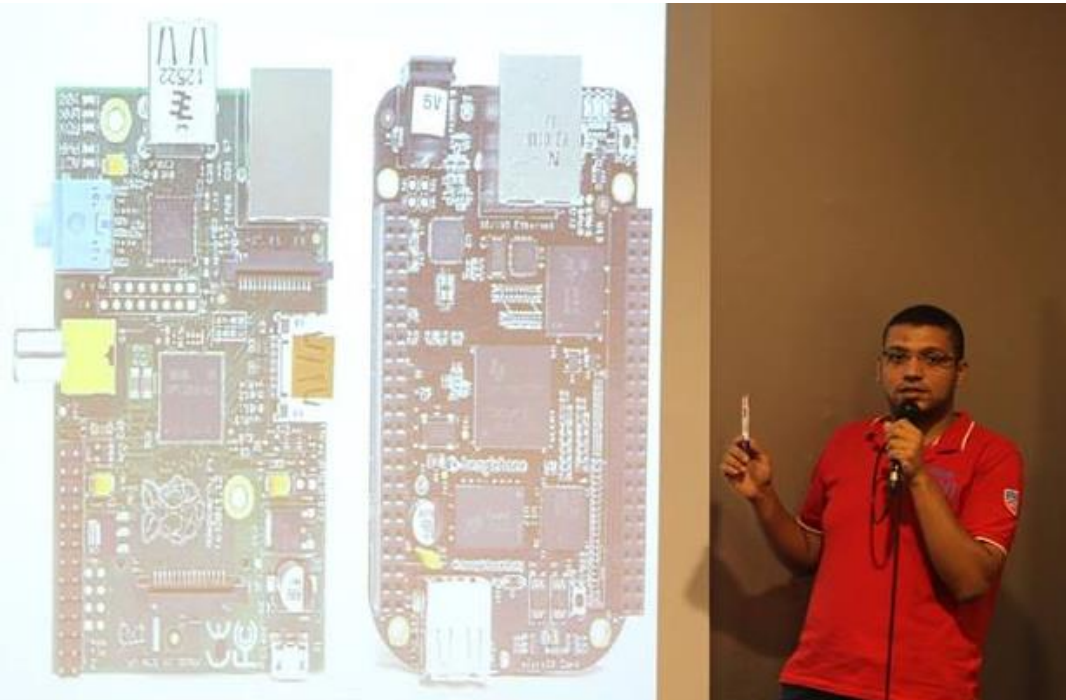
**From 10 July 2016 Till 5 September 2016**

**Around 500 student from 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> academic  
From 10 different universities**

**Overall all 30 mini subsystem for cubesat**



# Technical Talks Around Egypt





# Technical Talks Around Egypt



EED SPEAKER

ENG. MOHAMMED ABO ARAIS

“EDUCATIONAL SATELLITES”



Eng. Mohammed Abo Arais is working as a Miniaturized Satellites Systems Engineer for the Egyptian Space Program-National Authority for Remote Sensing and Space Sciences – NARSS. Eng. Mohammed is former-Technical Leader for the Space Technology Program, Planetarium Science Center (PSC) – Bibliotheca Alexandria. Now he is following his MSc studies at Computer and Systems engineering, from faculty of engineering, Ain Shams University. He received his B.Sc in Electronics and Communications Engineering from the University of Alexandria, Egypt in 2013. During his undergraduate study period, he joined a lot of competitions like (IEEEExtreme, CORD and SAE RC car race) which have a great impact on his technical skills that were obvious on projects like: Terminator Robot I & II, Simple HVAC System, Propeller Clock, RC Car Race and WiCharge. He finished his studies with a graduation project about “Outdoor Security System Using a Swarm of Robots.”



INNOVATIVE MINDS SUSTAINABLE DEVELOPMENT

Smart Village Conference Hall 5<sup>th</sup>-6<sup>th</sup> September, 2016



# Achievements & honors:

- 1st place NASA Space Apps Cairo 2016, Global Nominated for the Global Challenges with the name of Egypt.
- 1st place NASA Space Apps Cairo 2015, Global Nominated for the Global Challenges with the name of Egypt.
- Winning the Title of “The students of the year” for the Planetarium science Center for the year 2015.
- 1st place APS graduation projects competition held by Bibliotica Alexandrina-2013.
- Hold the title of the ideal student of Electrical Engineering Department, Faculty of Engineering, Alexandria University -2011.
- Order of Merit at the Alumni of Abasia Secondary Military School-2011.
- 1st place CORD (competition of robot design) Robo- fight Section-2010.
- Best Design & Innovation Award CORD (competition of robot design) Robo-fight Section- 2009



# Thanks for your time

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LinkedIn:

<https://www.linkedin.com/in/aboarais>

