

Mostafa Abd Al-Kareem Kassem

102 El-Eskandrany St .Moharem bek, Alexandria, Egypt.

Mobile: +2 (010) 06180639. Phone: +2 (03) 4973966.

Email: moakkasm@gmail.com

LinkedIn: [in/makkasm](https://www.linkedin.com/in/makkasm)

Website: www.makkasm.me

Date of birth: 15/07/1993.

Completed Military Service 1/6/2018.

Education:

- **MSc**, Computer and Systems Engineering at Ain Shams University. (Feb 2018 ~ present)
- **B.Sc.** of Engineering, Electronics and Communication -Department of Electrical Engineering Alexandria Higher Institute of Engineering & Technology. (July 2016)
 - **GPA:** 2.65 (Good)
 - **Graduation Project:** “Copy Human Movements Humanoid Robot 17DOF using Kinect sensor over Network”.
 - **My duties:** Making the data travels across Wireless Network using ZigBee Communication Protocol High Range – Low Power, Hacking the Microsoft Xbox 360 Kinect sensor using processing programming language, Micro-controller Programming to move the servo motors in Real time.
 - **Project Grade:** (Excellent).

Work Experience:

- **Embedded Software Engineer** – at Fruits. Solutions. (April 2019 ~ present)
- **Embedded Systems Engineer** – SDTL "Satellite systems development & Test laboratory" - Egyptian Space Program – NARSS. (July 2016 ~ April 2017)
- **Part time Teaching Assistant** for Satellite Communication Subsystem & On-Board Computer Graduation Projects at Misr International University – Faculty of Engineering – Electronics and Communication Engineering Department. (September 2016 ~ April 2017)
- **Technical Assistant** -Space Technology Program at PSC – BA. (August 2015 ~ October 2015)
- **Free Lancer Wordpress Developer** - Graphic Designer– Web Server administrator – Webmaster for 5 Websites based on Joomla, VB (Vbulletin Forums) Forums, WordPress. (2004 ~ present)

Technical Courses

- Embedded Systems Diplomat. (Under supervision of Eng. Mohamed Tarek) (October 2018 ~ Jan 2019)
 - Basic concepts of Embedded systems
 - C programming
 - AVR Micro-controllers interfacing (Implement all the drivers)
 - C for Embedded applications (Embedded C)
 - Basic concepts of Real Time OS (RTOS)
 - Software Engineering
 - Embedded tools
- Mastering Microcontroller with Embedded driver development – Udemy – Self-study (August 2018)
- Mobile Communication Package (GSM, 3G, LTE) at Alpha Tech. Training Center. (January 2016)
- Introduction to Embedded Linux, IEEE AlexSB. (Spring 2016)
- “CANSAT” Training Program (a project to build and launch a Can Nano-Satellite using Educational Tools) at the planetarium science center (PSC), Bibliotheca Alexandria. (Summer 2014)
- Linux Server Administration Camp at ITI. Intern (March 2013)
 - Basic Knowledge about Linux, Launch and manage a web-server.
- Embedded Systems Diplomat at Alexandria Training Center (Summer 2012)
 - PCB Design using Altium Designer Software.
 - AVR Micro-Controller, Raspberry pi.

Non-Technical Courses

- English Conversation Course, American Canadian Center. (Autumn 2013 ~ Spring 2015)
- English phonetics and conversation Course, American Culture Association. (Autumn 2012 ~ Spring 2013)

Selected Projects:

- **Automated dates sorting machine.** (April 2019 ~ present)
- **Design and Implementation of Egy_Universities_Sat_1 Communication Subsystem and On-Board Computer Hardware.** (August 2016 ~ March 2017)
- **Orion's Wearable Device.** (Spring 2016)
- **CANSAT Projects:**
 - Can-Sat 3. (Summer 2015)
 - Can-Sat 2. (Summer 2014)
- **Security Door lock:** Implementing a door lock security system based on AVR- Microcontroller – LCD, Buzzer, GSM-Module for mobile SMS notifications. (Spring 2013)

Technical Skills:

- **Hardware:** AVR-Atmega, Arduino and “mbed” ARM Architecture, STM32, PCB Design, Raspberry-Pi.
- **Modules:** Zigbee, GPS, Serial Camera, Webcam, Wi-Fi, IMU, USB Modem, Xbox 360 Kinect Sensor.
- **Languages:** Assembly (8086), C, Embedded C, MATLAB, Python, Processing Language, Visual Basic.
- **Experienced** user of Ubuntu & CentOS (Linux) and Microsoft Windows series of operating systems.
- WordPress developer.

Competition participating:

- NASA Space Apps Cairo 2016 Space Station Category. **Rank:** 1st place (April 2016)
- NASA Space Apps Cairo 2015 Outer Space Category. **Rank:** 1st place (April 2015)
- Little Programmer Competition (ITI). **Rank:** among top 10 (2005)

Internships:

- NARSS “National Authority for Remote Sensing & Space Sciences”. (April 2016)
- Telecom Egypt (TE) Summer Training. (Summer 2014)
- TIEC - Capacity Building Program for universities. (February 2013)

Publications:

- “FM Transmitting and imaging Pico-satellite based on open source tools” Bulgaria. (October 2016)
 - **Conference name:** 7th Nano-Satellite Symposium.
 - Link: https://events.castra.org/public/conferences/2/schedConfs/3/program-en_US.pdf
- “Approaching-Nano satellite-using-can-sat” Istanbul, Turkey (June 2015)
 - **Conference name:** 2015 7th International Conference on Recent Advances in Space Technologies
 - Link: <https://ieeexplore.ieee.org/document/7208452/>

Language Skills:

- Arabic: Mother Tongue.
- English: very good both written and spoken.

Selected Volunteering work:

- Speaker at “Space Apps Cairo 2018” Bootcamp at Nile University, Giza, Egypt. (2018)
- Volunteer at IEEE-YP – Space Apps Cairo Team – Competition team member. (2018)
- Speaker at “Space Apps Cairo 2017” Bootcamp at ITI, Smart Village, Giza, Egypt. (2017)
- Instructor of Aerospace Lecture at PHD “Pacemakers' Hardest Decision” Conference 2016 at Syndicate of Engineers in Alexandria. (2016)
- Instructor of CANSAT workshop at EED (Egyptian Engineering Day 2016) at Smart village conference Hall, Giza, Egypt. (2016)
- Speaker at “The Special One” Program opening. (2015)
- Instructor (Arduino) at “Innovation Center”. (2015)
- Instructor Assistant of Raspberry pi workshop at “Electric Week” of E-WEB Conference. (2015)
- Co-founder of “Innovation Center” at AIET. (2014)

Achievements & honors:

- 1st place NASA Space Apps Cairo 2016, Global Nominated, and People Choice 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.

References:

- Available upon request