

# Karim Chamaa

343 Gold Street, Apt #2611, Brooklyn, NY 11201 | kc2904@nyu.edu | (929)-287-7757 | www.karimchamaa.com

## EDUCATION

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**New York University Tandon School of Engineering**, Brooklyn, NY **January 2017**

*Master of Science in Mechatronics and Robotics Engineering*, GPA:4.0

**Lebanese American University School of Engineering**, Byblos, Lebanon **January 2015**

*Bachelor of Engineering in Mechanical Engineering with distinction*, GPA:3.5

## SKILLS

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**Software:** Arduino, Android Studio, ANSYS, AutoCAD, C/C++, C#, Eagle CAD, CATIA, Java, LabVIEW, Linux, MATLAB/Simulink, Microsoft office, OpenCV, Primavera, Python, ROS, SolidWorks, Unity3D, V-REP, Mathematica.

**Language:** Fluent in Arabic, English, and French.

## ACADEMIC PROJECTS

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**Autonomous Writing and Drawing Robot:** *New York University* **January 2016 - May 2016**

- Designed and built a low cost and stand-alone robotic arm capable of reproducing any paint file or captured image by making use of its onboard camera.
- Improved user everyday life by simply having a robotic arm that can draw, write or mimic any file accurately.

## EXPERIENCE

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**New York University Mechatronics and Controls Laboratory**, Brooklyn, NY **July 2016 – January 2017**

*Graduate Research Assistant*

- Built and experimented a mobile robot with an assistance duty using a robotic arm, a Kinect, and a laser scanner.
- Designed a virtual reality Android application where the user can select any object to be delivered by the robot.
- Improved the life of persons with physical disabilities by implementing a robot that can assist them.

**New York University Center for K12 STEM Education**, Brooklyn, NY **June 2016 - January 2017**

*Team Leader*

- Lead and trained a team of 15 student instructors in order to promote engineering teaching for more than 400 high school students around New York City.
- Developed curriculum, managed resources and designed robotic activities.

**Middle East Airlines (MEA)**, Beirut, Lebanon

**July 2014 - August 2014**

*Mechanical Engineering Intern*

- Developed knowledge while attending lectures, working in the continuous airworthiness management organization, quality control and scheduling departments.
- Performed maintenance checks A, B, and C on Airbus 330 and Airbus 320 aircraft.

**A.Fallaha & Co.**, Zalka, Lebanon

**June 2010 - December 2013**

*Salesperson*

- Maintained strong relationships with customers and granted high value-adding services.
- Observed market activity and quoted pricing in order to preserve healthy profit margins.

**Crown Flour Mills**, Cornich Al Naher, Lebanon

**July 2008 - August 2008**

*Mechanical Engineering Intern*

- Achieved routine scheduled maintenance work on flour milling machines and responded to equipment flaws.
- Developed new maintenance strategies, controlled maintenance tools and monitored maintenance costs.

## VOLUNTEER ACTIVITIES

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**Lebanese Red Cross**

**January 2012 - September 2012**

- Saved the lives of people by responding to emergencies and disasters.

## ADDITIONAL INFORMATION

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*Honors and Awards:* United Nations International Children's Emergency Fund certificate of participation.

*Student Clubs and Organizations:* Member of the Lebanese Scout Association for more than twelve years.

*Personal Interests:* Enjoy hiking and swimming.