

SENIOR STUDENT

# LOAY KHALIFA

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## ABOUT ME

A proactive high school student with a determination to pursue a career in Bioengineering studies. Possess excellent leadership and communication skills. Committed to social contribution and voluntary work. In love with different types of art, including music, drawing, graphic design, and photography.



## EDUCATION

### • STEM High School for Boys, Zewail City, Giza

[September 2018 – Current]

[Honors diploma- Unweighted GPA of 4.0 (sophomore and junior year)]

### • El Sayeda Khadija Official Language School, Cairo

[September 2010 – June 2018]

[Ranked #2 overall in 9 th grade with a cumulative score of 99.3% (Unweighted GPA of 4.0)]



## WORK AND ACTIVITIES EXPERIENCE

### [Medicine biotechnology intern - The National Research Centre]

[August 2020 - January 2021]

- Took a deeper insight and used the trending technologies used in biotechnology as Maxiprep and CRISPR Cas9
- Worked on Liver Cancer line cells (Huh7) as a part of Hepatitis C Virus Research program (done all the preparations - jointly designed PCR primer sets that was used in detection of deletion markers in the cell lines)
- Working on a functional assessment of cancer gene (BRCA) variants and mutations using CRISPR Cas9 technology (The most advanced technology in genome engineering) as the only student intern

### [Intern - El Hayah Medical laboratory, Cairo]

[June 2019 - September 2019]

- Wrote 50+ medical tests' reports
- Learned about and executed 20+ medical tests under a supervision of a specialized professor

### [Biology Club Head of Academics- STEM High School for Boys, Giza]

[September 2019 - June 2021]

- Led 10 assistants and supervising Biology night sessions given to +100 sophomores and Planning the taught curriculum.
- Executed 3 biology magazines

### [Biology Teacher Assistant - STEM High School for Boys, Giza]

[January 2018]–[June 2021]

- Held a weekly lecture for 25 sophomores on different topics about their curriculum.
- Responsible for lap stocking, tours and visits

## SKILLS

PUBLIC SPEAKING

WRITING

LEADERSHIP

GRAPHIC DESIGN

PROJECT PITCHING

## LANGUAGES

Arabic Language [Native]

English Language [Expert - C1]

German Language [Beginner – A2]

## HOBBIES



**[German Teacher Assistant - STEM High School for Boys, Giza]** [March 2019]–[June 2021]

- Held a weekly session for 25 sophomores on different German topics about their curriculum.
- Held 2-3 weekly sessions to guide 25 students taking FIT-1 German test.

**[project-pitching teacher assistant - STEM High School for Boys, Giza]** [September 2019]–[June 2021]

- Held two lectures weekly for 25 sophomores on their capstone scientific project portfolios and posters.
- Advised +25 students in their projects.
- Monitored the progress of 7 assigned capstone groups throughout the semester, all of them achieved A+

**[STEM MUN Deputy Secretary General - STEM High School for Boys, Giza]** [November 2019]– [September 2020]

- Led 15 chiefs of committees and 70 members
- Organized two days conference discussing the future of nuclear power and the syrian civil war with 40+ delegate and 200 attendant that was covered by national and international news agencies
- Organized 10+ executive board meetings

**[STEM MUN Delegate - STEM High School for Boys, Giza]** [June 2019]– [July 2019]

- Attended weekly sessions about different political topics and learning about the United Nations procedures in solving crises and stopping wars.
- Represented the delegation of State of China in the final conference discussing Yemeni civil war.

**[STEM MAL Co-founder and Council Chair - STEM High School for Boys, Giza]** [May 2020]– [September 2020]

- Co-founded the first Model Arab league in STEM Community
- Designed Curriculum about the Arab league history and procedures, the Libyan Civil War, and improving the debating skills
- Mentored 22 delegates for 6 weeks to improve their debating skills and understand the topic
- Led and managed the debate in the final conference

**[STEM Local Hack Day Head of Media - STEM High School for Boys, Giza]** [July 2019]– [November 2019]

- Led a team of 7 to execute 45+ designs and 3 marketing campaigns to promote our event and trending technologies
- Achieved Facebook page's reach of 100,000 and grasped 1500+ attendant to the event

**[STEM Egypt DECA Co-founder and Head of Media - STEM High School for Boys]** [June 2020]– [June 2021]

- Co-founded the First DECA chapter in the Egyptian high schools
- Leading a team of 7 to execute marketing campaigns about marketing, business, and entrepreneurship

**[Media member - IEEE Helwan University SB]** [August 2019 - September 2020]

- Executed 25+ graphic designs to promote various tech events and jointly photographed these events.
- Jointly designed the official website from scratch
- Led the 20 media members in the STEM committee

**[Club member - EducationUSA Competitive College Club, Cairo]** [February 2020] - [Present]

- Passed two-week assessment program on college admissions
- Attended weekly sessions about college applications crafting and college pursuance in the US
- Instructed 3 sessions to more than 50 member about US colleges' admission, covering portfolio making, financial aid, and the ACT test.

**[Co-leader of the Music band - STEM High School for Boys]** [January 2020] - [June 2021]

- Music department representative
- Mentored 5 colleagues to learn guitar
- Led the band's guitar training and organization
- Performed 7 times on campus.

### **[Swimmer at the premier level team - Talaa El Geish sports club] [2014]–[2018]**

- led the daily workouts with coaches and coached 7 players to be promoted
- Represented the team in national competitions
- Got gold medal in inner-club competition



## **VOLUNTEERING EXPERIENCE**

### **[volunteer Photographer in Maker Faire Cairo - Smart Village, Cairo] [February 2019]– [March 2019]**

- Covered the whole event and meetings with 400+ photograph
- Retouched and edited the photographs that was used in social media promotions and coverage

### **[Feeding & Support Committee Volunteer, Reseala Charity Organization] [2015]– [Present]**

- Jointly cooked 10000+ meal and delivered them to 2000+ needed families from all around Egypt
- Jointly roofed 10 houses that were unroofed and exposed to the rain and harsh weather
- Organized clothing fair to distribute free clothes to needed families

### **[Minicamp Committee Media Volunteer, Resala Charity Organization] [September 2017] - [Present]**

- Covered 40 event that share the mindset of volunteering and introduce the attendance to how to volunteer and make an impact
- Designing awareness posters and posts to be shared on social media
- Chosen as the best media volunteer in 2019

### **[Packaging volunteer, Egyptian Food bank] [2019]**

- Packaged 1000+ food supplies to be sent to support needed families in Ramadan

### **[Media Volunteer, Global Earth Day, Cairo] [April 2019]**

- Covered the whole event and meetings with 300+ photograph
- Designed posts to share awareness about saving the environment



## **ACOMPLISHMENTS AND HONORS**

- Yale Young African Scholar program's Ambassador (July 2020)
- The first and only highschooler to be accepted in National Research Center Internship (August 2020)
- Semifinalist at BrainBee neuroscience competition (December 2019)
- Within the 90th percentile in the world, out of 4906 participants in the Avogadro exam by the University of Waterloo
- Ranked 2nd over school and 4th over government in 9th grade out of 150,000 student (July 2018)
- Got a "Sehr Gut" grade (the highest grade) in Fit 1 test in German (2019)
- Full STEM Schools merit Scholarship "within the 99th percentile out of 12000 applicants" (September 2018)
- Received Outstanding Delegate award at STEM Model United Nations 2019
- Gold Medalist at Talaa El Geish sports club's Premier team swimming inner-club competition (2018)
- Complimentary membership from The New York Academy of Science for 3 years in row
- Received The Best Media Volunteer award in Resala Charity Organization (2019)
- Selected to perform electric guitar in TedXyouth@STEMMaadi (Event is delayed due to COVID)