

PERSONAL INFORMATION

Mohamad Ayman Elbadrawy

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Date of birth 05/02/1994 | Nationality Egyptian

PERSONAL STATEMENT

A Computer Engineering Graduate with strong communication and technical skills, Robotics enthusiast, open-source advocate, love building exciting stuff.

WORK EXPERIENCE

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| 01/11/2018–Present | Software engineer
Erle Robotics, Vitoria (Spain) |
| 13/05/2018–01/10/2018 | Google summer of Code student
Google summer of Code <ul style="list-style-type: none">■ <u>Upgrading the Moveit! Setup Assistant.</u>■ <u>Allowing the integration between Gazebo and ROS and Moveit! the robot motion planning library to be automatic through the setup assistant.</u> |
| 15/01/2018–16/06/2018 | Teaching and research assistant
Zewail City for Science and Technology, Cairo (Egypt)
Teaching assistant for the course Real-time Embedded systems.
Student research assistant in computer vision and deep learning. |
| 15/09/2017–15/12/2017 | Software consultant.
Open Robotics <ul style="list-style-type: none">■ Maintained and improved <u>Gzweb</u>, the WebGL client for the desktop simulator Gazebo.■ Improved code quality, e.g. test coverage 0% -> 35+%.■ Ported features from <u>Gazebo</u> to <u>Gzweb</u>, and solved issues on <u>other open source projects</u> that <u>Gzweb</u> relays on [threejs]. |
| 15/05/2016–15/09/2016 | Google Summer of Code Student [intern]
Google Summer of Code <ul style="list-style-type: none">■ During the <u>Google Summer of Code program</u>: worked on <u>Gazebojs</u>, where I've transformed the package from almost a prototype to a reliable one.■ Replaced the Gzserver c++ implementation by a JS one. |
| 15/06/2015–15/09/2015 | Research assistant intern
American University in Cairo, Cairo (Egypt)
Worked under the supervision of <u>Associate Professor Amr Helmy</u> to simulate and implement an autonomous lawn mower. |

EDUCATION AND TRAINING

15/09/2012–15/10/2017

Bachelor of Science degree

Cairo University Faculty of Engineering, Cairo (Egypt)

Computer engineering with key courses like:

- Artificial intelligence, Computer Graphics, Operating systems, Robotics, Embedded Systems.

Key projects like:

- Graduation project: Improved faster RCNN for object detection — [deep learning](#), A+.
- Tutoring website: [website](#) built using Angular-2 , A+.
- Computer vision: Distance estimation between cars in the same lane using openCV, A+.
- Multi-threaded Search engine using Python for crawling and Java for indexing plus an HTML/CSS frontend. [source](#).
- Compiler for a made up language using the lex and yacc. [source](#)
- Multiplayer ping-pong game using Assembly! [source](#) .
- Built a Flowchart and convert it to C++! [source](#)

PERSONAL SKILLS

Mother tongue(s) Arabic

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	A1	A2	A2	A2	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

- good leadership and team-leading skills (was the leader of my team during our Graduation Project, and multiple teams through school).

Job-related skills

- Active contributor to open source software like: [Threejs](#)(JS), [gzweb](#)(JS), [gazebojs](#)(JS), [gazebo](#) (C++).
- Applying and improving Deep Learning techniques. Tensorflow, Pytorch.
- Web development: JS, nodeJs, Threejs/WebGL, Angular.