








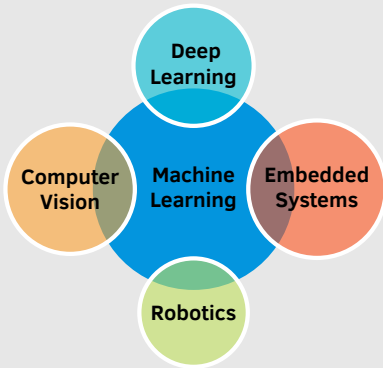
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Skills

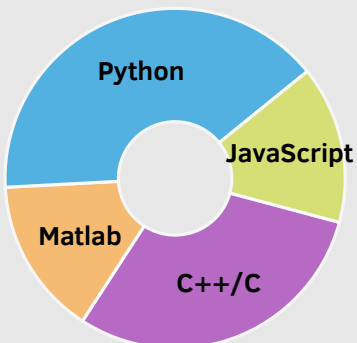
Overview



Tools



Programming



Interests



Education

2015 - 2020 **Bachelor of Science** [Cairo University, Faculty of Engineering](#)
Major in Computer Engineering

≡ Experience

2019 - 2020 **Electrical Technical Director** [Cairo Uni Racing Team](#)

- Designed and implemented a reliable and robust perception pipeline based on a single monocular camera.
- Designed and implemented a simultaneous localization and mapping module.
- Integrated all software modules through a ROS skeleton.
- Simulated and visualized the full functioning driverless vehicle.
- Managed a team of 30 members to design and simulate the electrical system of a formula-style electric vehicle.
- **tools:** Python, PyTorch, ROS, rviz, git.

2018 - 2019 **Embedded Systems Team Head** [Cairo Uni Racing Team](#)

- Along side a team, designed, simulated and manufactured an formula style electric vehicle.
- Using ARM controllers, built an embedded system of several electronic control units connected through CAN protocol.
- Managed a team of seven members to work together under a V-model of development.
- Gained deep and intensive knowledge and practical experience in embedded systems and automotives.
- **tools:** C++, C, git, ARM controllers, CAN protocol.

2018 **Software Developer Intern** [Egyptian Ambulance Organization](#)

- Development of automated surgery waiting list for egyptian public hospitals.
- System was Submitted for production and deployment in september 26th, 2018.
- The internship was a three months one, from June to September 2018.
- **tools:** Laravel, HTML, CSS, PHP, MySQL

Projects

2020 **AI Go Board Game** [GitHub Repo](#)

- AI agent for Go board game based on Deepmind's AlphaGoZero.

2019 - 2020 **OCR for Arabic Scripts** [GitHub Repo](#)

- Optical character recognition of arabic script images and output scripts as text.

2019 - 2020 **AutoRace** [GitHub Repo](#)

- Implementation of a state-of-the-art Robotics Software pipeline of an autonomous racing vehicle including Perception from monocular and stereo cameras, Localization, Mapping, and Motion Control.

2018 - 2019 **Embedded Software of Electric Vehicle** [GitHub Repo](#)

- The 2019 electrical vehicle embedded system code for Cairo University Racing Team.