

Sameh Albadry

Al Golf, Nasr City, Cairo, Egypt

+201112848887

Samehelbadry21@gmail.com



www.linkedin.com/in/sameh-albadry-1355401a6/



github.com/SamehAlbadry

Education

Egyptian Academy for Engineering and Advanced Technology (EAEAT)

July 2018 – 2023

Bachelor of Electronics and Communication Engineering

Cairo, Egypt

Aziz abaza language school

2011 - 2018

Preparatory and Secondary Education

Cairo, Egypt

Talaa el Kamal Islamic school

2005 - 2011

Primary Education

Cairo, Egypt

Work Experience

Robotics lead instructor — Full time @ Amit Learning

July 2022 - Present

- Created and developed a robotics curriculum and course materials for a diploma program, covering advanced principles of robotics, programming, electronics and mechanical design Mobile reverse engineering and penetration testing.
- Designed and facilitated workshops to prepare students for robotics competitions, managing student progress and inquiries, and ensuring effective communication with parents
- Instructed students in programming languages (e.g., Scratch, Python), mobile app and game development, electronics (including working with electronic components and circuitry), Arduino board, robotics, and mechanical design. Guided students in applying these skills to create functional robots, such as obstacle-avoiding robots, line-following robots, and Bluetooth-controlled RC cars.

Technical head — Full time @ Google Developer Student Club

April 2022 - Present

- Served as Technical Head for Google Developer Student Club, overseeing multiple projects and initiatives.
- Collaborated with a technical team to develop data analysis and data science projects for freelance work, resulting in successful completion of multiple projects.
- Managed technical team members, assigned tasks, and developed diplomas and courses for students of all ages, covering a range of technical topics.
- Developed bots to facilitate customer access to services, resulting in improved customer satisfaction and streamlined service delivery.

Robotics Instructor — part time @ Wiro Plus

July 2020 – April 2022

- Worked as a Robotics Instructor at Wiro Plus Company for 2 years, delivering training in electronics, programming, and robotics to students across multiple schools, including Narmer American College, Ramatan Language School, Manhattan International School, Builderz, IMA, BIMS, and Alhoda International School.
- Coached a team that participated in the Global VEX competition, guiding students in applying their technical skills to achieve success in the competition.

Extracurricular Activity

Faculty of Engineering, Ain Shams University

May 2019 – Present

Course Instructor

Cairo, Egypt

- Served as a Computer Vision Instructor for the student activity program at the Faculty of Engineering, Ain Shams University
- Developed and delivered training materials on computer vision, a critical area of artificial intelligence, to enhance technical skills of colleagues.
- Created course content and developed the training program from start to finish, providing a comprehensive learning experience for participants

Arrow Team

AI team member

Cairo, Egypt

- Worked as a Computer Vision Developer in the AI team for the Remotely Operated Underwater Vehicle (ROV) team affiliated with the Arrow Racing Team.
- Developed computer vision software for a variety of tasks related to the ROV, including measuring fish dimensions and density, detecting damage to inter-array cables, and differentiating between fish and other aquatic species.
- Collaborated closely with the ROV team to ensure effective integration and operation of computer vision software within the larger system.

Arrow Team

Course Instructor

Cairo, Egypt

- Served as an Arduino instructor for three years, teaching students the fundamentals of working with the board and interfacing various sensors, Bluetooth and WiFi modules. Led instruction on a range of projects, including building an obstacle avoidance car, implementing control of an Arduino car via Bluetooth, solving a maze challenge, and using Arduino for IoT applications and computer vision.
- Improved students' skills and technical knowledge, enabling them to participate in a range of competitions, including the Ever Racing Competition, Shell Racing Competition, and the ROV.

Skills

Languages: Python, C, Arduino, Matlab

Tools: Git , Proteus

Technologies/Frameworks: IoT, MQTT, numpy, Pandas, matplotlib, analog circuits