ABDELSALAM ELTAMWAY

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EDUCATION

The American University in Cairo (AUC)   *2017-2023*
BSc in Computer Engineering. BSc in Electronics Engineering. GPA: 3.64/4.0
International School for Elite Education (ISEE)   *2011-2017*
IGCSE. Graduated with high honors.

TECHNICAL SKILLS

- Versed in C++(32k), Latex(17k), Verilog(5k), Java(3k), kotlin(2k), Python(1k), Javascript(400), SQL(300), MongoDB(200), PHP(100), CSS(100), HTML(150) and Ruby(100). Numbers indicate lines of code written in language.
- Experienced in circuit design with Eagle and Altium.
- Experienced with Arduino and Raspberry Pi.
- Robot enthusiast. Built several robots, including a cleaning vacuuming robot with a gripper arm.
- Experienced 3D printing enthusiast; designed and printed dozens of my own robotics components and personal projects.
- Programmed various games and applications, including a fully featured version of pac man, a text compression tool and a circuit netlist generator for boolean expressions; mostly in the language C++.
- PC enthusiast, built my own liquid cooled computer. Built and setup file, surveillance, DNS and game servers.

COMPETITIONS

Participant, International Collegiate Programming Contest, AUC   *2019*
Entered the local ICPC ACM after gaining experience and practice in competitive programing; achieving 9th place out of 14. Was the youngest participant.
Participant, Code Geist hackathon, Sefr Wahed   *2019*
Created an app and it's pitch in 48 hours with a team of 4; developed an environment centric mobile application meant to encourage and reward individuals for collecting litter.
ROV electronics member, Robotics Club, AUC   *2017-2019*
Entered with the university's Remotely Operated Vehicle (ROV) team that participated in the international MATE competition; Greatly contributed to circuit design and mechanical design.
Contestant, Science fair, Student Expo 2014   *2014*
Won first place at the high school level with a 4 wheeled remote controlled robot featuring a 3-axis arm.

EXPERIENCE

Lead research intern. Computer Science and Engineering Department, AUC   *2020-present*
Lead a team of 4 to create an automated process that builds application specific RISC-V based CPU implementations; Written mostly in Python and Verilog
Undergraduate teaching assistant, Programming fundamentals, AUC   *2018-present*
Worked as an undergraduate teaching assistant for the second level of computer engineering; helping students understand programming concepts; Also maintained ACM scoreboard used by university.
Tutor, Computer Science and Engineering Clinic, AUC   *2019-2020*
Tutor of the student driven computer science and engineering "clinic"; an organization that is meant to provide the support to students of the first 4 levels of computer science and engineering through sessions and one on one tutoring sessions.

EXTRACURRICULAR ACTIVITIES

Recreational Scuba Diver, Scuba Diving, Independent *2009-present*
Licensed 2-star CMAS scuba diver; preformed over 100 scuba dives in the Red Sea.
ROV Multimedia Head, Robotics Club, AUC *2017-2019*
Led team of 5 to market and document ROV events. Photographed and filmed dozens of events. Filmed and edited 4 videos for marketing purposes. Designed brochures to advertise robotics classes. Gained more experience on how to lead
Multimedia Member Peer Leader Advising (PAL), AUC *2018*
Photographed half a dozen events. Created 3 animated and heavily edited videos officially published by University.
Assistant Multimedia Head, AUC Insider, AUC *2017*
Photographed dozens of events. Published over a dozen photographs in the University newspaper.
Camper, NASA Camp, Independent *2015*
Attended NASA camp in Atlanta, USA. Won "Best Camper" award.

SKILLS

- Very fluent in written and spoken English and Arabic.
- Professional Photographer.
- Proficient in Adobe After Effects, Premier Pro, Photoshop, Illustrator, InDesign, Autodesk 3Ds MAX and Blender.

TRAVEL

Travelled to most of Europe, the U.S.A, the Middle east and Africa