

# ABDELSALAM ELTAMWAY

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## EDUCATION

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### **The American University in Cairo (AUC)**

2017-2023

BSc in Computer Engineering. BSc in Electronics Engineering. GPA: 3.66/4.0

### **International School for Elite Education (ISEE)**

2011-2017

IGCSE. Graduated with high honors.

## TECHNICAL SKILLS

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- Versed in C++(35k), Latex(20k), Python(6k), Verilog(5k), Java(3k), kotlin(2k), 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 machine learning; built multiple models that are used in production.
- Experienced with embedded development; built applications including POV display using STM32 and ESP MCUs.
- 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

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### **Participant, International Collegiate Programming Contest, AUC**

2019

Entered the local ICPC ACM after gaining experience and practice in competitive programing; achieving 9<sup>th</sup> place. 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

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### **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

### **AI development intern, Tod-Z, Poland**

2020-2021

Lead AI and machine learning development. Built their entire machine learning stack; from concept to training and deployment. Remotely carried out development.

### **Intern, Agile technologies, Egypt**

2020

Built fully featured web store using OutSystems. Remotely communicated regularly with team to ensure quality. Gained a great deal of experience with remote work and organization.

### **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.

### **Undergraduate teaching assistant, Programming fundamentals, AUC**

2018-2020

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.

## EXTRACURRICULAR ACTIVITIES

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### **Recreational Scuba Diver, Scuba Diving, Independent**

*2009-present*

Licensed 2-star CMAS scuba diver; performed 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

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- 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

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