




ABDELSALAM ELTAMAWY


Self Introduction Video 

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 Nasr City, Cairo, Egypt

EDUCATION

The American University in Cairo (AUC)  2017-2022

 Cairo

- › BSc in Computer Engineering
- › Graduated with High Honors. GPA: 3.6/4.0

International School for Elite Education  2011-2017

 Cairo

- › Graduated with High Honors

SELECTED PROJECTS

Machine learning based decompiler   2021-2022

- › Completed Bachelor thesis
- › Transformer based decompiler targeting android.
- › Novel tree graph generator for AST representation.
- › Designed to be a forensic malware tool.

Persistence of vision display   2021

- › Created high speed fan display and embedded system to fulfill millisecond timing constraints.
- › Featured embedded web server for user accessibility.

Distance sensor from scratch  2021


  

- › Ultrasonic distance sensor.
- › Reverse engineered market to create more accurate sensor.

RISC-V microarchitecture   2021

- › Implemented 6 pipeline RISC-V microarchitecture on an FPGA in Verilog fulfilling specification requirements.

LANGUAGES (Lines of Code) >  Python(38k)

 C++(35k)  LaTeX(25k)  Verilog(5k)  Java(5k)  Kotlin(2k)

 Rust(2k)  Dart(2k)  Javascript(2k)  Bash(1k)  SQL(1k)

HOBBIES

PC enthusiast

- › Build own liquid cooled computer.
- › Administer homelab with file, surveillance, DNS servers.

3D printing enthusiast

- › Designed own 3D printed robot components.





Travel

- › Traveled to most of Europe, the U.S.A, the Middle East and Africa


EXPERIENCE

Undergraduate teaching assistant

 AUC

- › Assembly&Comp Organization  2021-2022
- › Computer Architecture  2020-2021
- › Department Tutor  2019-2020
- › Programming Fundamentals  2018-2020


Lead research intern


 2020-2021

 AUC

- › Led team of 4 to create a process that builds application specific RISC-V based CPUs.

AI development intern

 2020-2021

 Tod-Z (remote)

- › Lead AI and machine learning development.
- › Built entire machine learning stack from concept to training to deployment.

Intern


 2020

 Agile technologies (remote)

- › Built web store using OutSystems.
- › Regularly communicated for quality assurance.

EXTRACURRICULAR


Recreational scuba diver

 2009-present

 Red Sea

- › Licensed 2-star CMAS scuba diver.
- › Over 200 dives in the red sea.

ROV media head

 2017-2019

 AUC

- › Led team of 5 to market and document Robotics club remotely operated vehicle events.
- › Photographed and documented dozens of events and directed 4 marketing videos.

COMPETITIONS

HackTrick Hackathon  Reinforcement ML  2022

ICPC ACM  Youngest participant  2022

Code Geist Hackathon  Android App  2019

MATE ROV  PCB design  2017-2019

NASA Camp  1st place  2015

Student Expo  1st place  Robotics  2014

SKILLS >

 Git VCS  Linux  Docker  English

 Arabic