




# 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 boards 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) ›

 (38k)  (35k)  (25k)  (5k)  (5k)  (2k)  (2k)  (2k)  (2k)  (1k)  (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**   2022

**ICPC ACM**   2022

**Code Geist Hackathon**   2019

**MATE ROV**   2017-2019

**NASA Camp**   2015

**Student Expo**    2014

## SKILLS ›









