

*Mail*                      ahmedhamdyau@gmail.com  
*Phone*                    +201148424331  
*GitHub* @/shakram02 — *Hackster* @/shakram02 — *LinkedIn* @/shakram02.

## EDUCATION

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### Bsc. Computer and Communications Engineering

Sep 2012- Jul 2018

*Alexandria University*

The program mainly focuses on Computer Science with courses on Algorithms, Data Structures, Operating Systems and so on. With some courses on hardware architecture and an embedded systems course.

## WORK EXPERIENCE

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### Research Assistant

Jun 2017 - Present

*IoT & Cyber security Lab, Faculty of Engineering*

Researching controller security in Software Defined Networks.

### Software Engineer

2015 - 2016

*TMentors, Internship*

Designed and implemented a complete software system to control a tel-operated advertisement robot, using C# and WPF technologies.

## SKILLS

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KOTLIN, PYTHON, JAVA, C/C++, ANDROID, RUST, GIT, ARDUINO, LINUX, NETWORK PROGRAMMING, NODEJS, LATEX, C# and MCS8051

## PUBLICATIONS

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### Repoxy: Replication Proxy for Trustworthy SDN Controller Operation - IEEE TrustCom 2018

Security enhancement for Software Defined Networks using a controller replication proxy

## PROJECTS

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All Projects are hosted on [Github @/shakram02](#).

The projects span those fields: Software Defined Networking, Conventional Networking, IoT (OTP based smart house lock) , Android Applications, Arduino, System Software (Assembler, Compiler front-end), Machine learning and Computer Graphics (OpenGL).

## COMMUNITY ACTIVITIES & VOLUNTARY WORK

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- Computer Science and Robotics educator for mid/high school students at [Protons](#) - Python, Arduino
- Volunteer instructor for C and Arduino courses, [IEEE—AlexSB](#)
- Made in Alex Robotics team member ( competitions: IRC, Minesweepers ).
- Microsoft Student Partner 2015 – 2016
- AIESEC member, Project organization (IGCDP)