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## 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, RUST, GIT, ARDUINO, NETWORK PROGRAMMING, NODEJS, C#

## 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](https://github.com/shakram02).

- [N Puzzle](#) [Kotlin] N-Puzzle solver with a friendly GUI. Implements A\*, BFS and DFS
- [Arslanino](#) [Kotlin/Firmata/Sockets] Transfer Arduino input signals to Arduino over network.
- [Lwa](#) [Android + NodeJs + Arduino] Smart home lock using OneTimePasswords (OTP)
- [Ed Grid](#) [Android / Kotlin] Make education fun by projecting Multiple choice questions on real world.
- [Availability App](#) [Angular2] Role distribution for IEEE Members for event management [Demo](#).

## COMMUNITY ACTIVITIES & VOLUNTARY WORK

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- Computer Science and Robotics educator for mid/high school students at [Protons](#) - Python, Arduino
- Software Committee Member, IEEE AlexSB.
- Volunteer instructor for C and Arduino courses, [IEEE—AlexSB](#)
- Microsoft Student Partner 2015 – 2016
- AIESEC member, Incoming global volunteer (IGV) committee; Project organization
- AIESEC Exchange Participant, Children education project in Indonesia [6 weeks]