

Ahmed Hamdy Mahmoud

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GitHub @/shakram02 — *Hackster @/shakram02* — *LinkedIn @/shakram02* — *Behance @/shakram02*.

Learner, Computer Geek, Researcher, Engineer, Educator, Open Source lover, (Code & Graphic) Designer and DIY Electronics maker.

Education

Bsc. Computer and Communications Engineering

Alexandria University

Sep 2013- Jul 2018

TOEFL iBT

Score:106

October,2018

Experience

Researcher

IoT & Cyber security Lab in Faculty of Engineering [Independent, Unpaid]

Security research for Software Defined Networks (SDN).

Jun 2017

Software Engineer

TMentors, Internship

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

October 2015 - August 2016

Publications

Repoxy: Replication Proxy for Trustworthy SDN Controller Operation

Supervisor: *Mohamed Azab, PhD*

Paper

The 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications [view](#)

PI Floor: Portable Interactive Floor with High Resilience and Minimal Setup for Edutainment

Supervisor: *Shaimaa Lazem, PhD*

Poster

The 17th International Conference on Mobile and Ubiquitous Multimedia

Projects

My other projects are hosted on [Github @/shakram02](#).

- [Repoxy](#) [OpenFlow, Low level socket I/O, OF Packet Fabrication] The first Software Defined Network (SDN) proxy to allow multiple controllers to manage OpenFlow switches
- [Pi Floor](#) [Android, Client/Server, Web Sockets] Interactive floor application availing educational games in classroom setup.

Extracurricular Activities

- Software Committee member and course instructor (C, Arduino), IEEE Alexandria student branch
- Computer Science and Robotics educator for mid/high school students at [Protons](#) - Python, Arduino
- Made in Alex Robotics team member (competitions: IRC, Minesweepers)
- Microsoft Student Partner 2015 – 2016
- AIESEC member, Incoming global volunteer (IGV) committee; Project organization
- AIESEC Exchange Participant, Children education project in Pontianak, Indonesia