

*Mail*                      ahmedhamdyau@gmail.com

[GitHub @/shakram02](#) — [Hackster @/shakram02](#) — [LinkedIn @/shakram02](#).

**Intro** I'm that kind of person who is a coding addict, loves SOLID code and feels joyful when making projects that mix embedded systems with computers. I started learning Arduino and robotics when I was 17 years old. Teaching is a blessing that gives me loads of sense of meaning. I put all my personal projects are on GitHub

## 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

*Faculty of Engineering, Alexandria University*

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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C/C++, PYTHON, JAVA, C#, KOTLIN, RUST, BASH SCRIPTING, SYSTEM PROGRAMMING, GIT, LINUX, SOCKET PROGRAMMING, MACHINE LEARNING, LATEX, NODEJS, ANGULAR2

## PROJECTS AND PROTOTYPES

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### Splat

Android, OpenGL

Simple Spaceship game where you avoid meteors using accelerometer. [repo](#)

### Lock with OTP Auth LWA

NodeJs, Android, Arduino

This project is a basic sort of clone for Amazon smart lock, the Android application is used to generate keys that're entered into the webserver which unlocks the home, video attached in [repo](#)

### Assembler

Rust, Travis

Assembler for SIC/XE source code that produces object file with extensive error checking With CI on Travis.

## COMMUNITY ACTIVITIES & VOLUNTARY WORK

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- Computer Science and Robotics educator for mid/high school students at [Protons](#) for 3 years - Arduino, C# and Python
- 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, worked with interns from other countries on teaching orphans