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[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

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

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

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

PROJECTS AND PROTOTYPES

Splat

[Computer Graphics] Modern OpenGL, Android

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

Lock with OTP Auth LWA

[IoT] 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

[System Software] Rust, Travis

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

COMMUNITY ACTIVITIES & VOLUNTARY WORK

- 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