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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 communication 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

<i>Self taught</i>	C/C++, PYTHON, JAVA, C#, KOTLIN, RUST, BASH SCRIPTING, SYSTEM PROGRAMMING, GIT, LINUX, SOCKET PROGRAMMING, MACHINE LEARNING, LATEX, NODEJS, ANGULAR2
<i>College</i>	C/C++ (BASIC), JAVA (BASIC), MCS51 AND 8086, HTML, PHP, CSS , MATLAB

PROJECTS

Assembler

Rust, Travis

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

File Server

Modern C++

Designed and implemented a protocol using GoBackN on top of UDP to enforce data integrity in file transfer.

Bash Beautify VsCode extension

NodeJs, Python, Gulp

I created a NodeJs wrapper around a Python script that I found on-line that formats bash scripts (its author had his credits) and modified it a bit. Since an easy to use formatter didn't exist.

COMMUNITY ACTIVITIES

- Computer Science and Robotics educator for mid/high school students at [Protons \(free program\)](#) for 3 years - Arduino, C# and Python
- Microsoft Student Partner 2015 – 2016
- Volunteer instructor for C and Arduino courses, [IEEE—AlexSB](#)
- Made in Alex Robotics team member (competitions: IRC, Minesweepers)
- Former AIESEC member, Participated in receiving global interns in a charity program in Alex.