

Ahmed Hamdy Mahmoud

3rd year student Faculty Of Engineering, Alexandria University Computer and Communications Engineering Expected graduation year 2018

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Skills

Rust, C, C++, Kotlin, C#, Java, Python, git, Linux, Machine learning, Angular2

Projects

Assembler for SIC/XE machine

Aiming to learn Rust, this program creates object code from input assembly file, it has unit tests, a robust error checks and modular design

Shixy the robot

At my internship at [TMentors](#) Writing software that controls a remotely operated robot using C# and WPF and communicating with the Arduino that controlled the motors. and then moved to Xamarin to control the robot from mobile phones

File server

Using modern C++, I implemented GoBackN algorithm on top of UDP to make reliable file transfer, it could also server multiple clients each one on a separate thread.

Event planning system for IEEE | AlexSB

Using Angular2, this web app is used to organize the time slots for the volunteers in a given event and showing collisions between the time slots if they occur

Arduino Network Manager

Using Java, this project controls a network of Arduinos, The program monitors the state of the Arduinos in the network and sends and queries the state of them

SMS AdBlocker

Using Kotlin after Google announced its support for Android, this project aims to block annoying SMS Ads by the service providers and filter them away

Power Tray

Using C# I created this gadget when I was a windows user to change the power settings in a succinct manner directly from a task bar tray. This gadget was selected to be featured on [Softpedia](#)

Activities

- **Microsoft Student Partner** 2015 – 2016 helped in spreading new technologies on campus and providing educational mails
- **IEEE | AlexSB volunteer** Software & Technical Committees, Graphics - 2016 , instructed C and Arduino courses
- **Programming & Robotics instructor** at [Protons](#) by IEEE AlexSB for 3 years - Arduino, C# and Python
- **Human Computer Interaction** workshop at *STRA City* we created a prototype for a tele-presence robot (Arduino,RPi,WebRTC,MQTT) it was more of a research experience where we applied user centric design principles
- **Made In Alex Robotics Team** joined Minesweepers competitions and created a robot that was remotely operated using Arduino and nRF and sent data using serial to the C# program on pc
- **AIESEC** Worked with interns from other countries for a project to help orphans learn English and Math
- Member at Made In Alex robotics team
- **Batch representative** 2015 – 2016 solving problems for the batch
- Arduino blogger on Hackster.io

Online profiles [GitHub](#) | [Hackster](#) | [LinkedIn](#) | [Facebook](#)