Ahmed Hamdy Mahmoud

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Expected graduation year 2018

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Skills

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

Projects

I use projects to learn new languages and technologies in a short amount of time, this is pretty much fun and challenging

Assembler for SIC/XE machine

Using `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` using `Prism` and using component based architecture, containers and interface dependencies. Subcomponents were a camera viewer, slide show, socket connector to the pilot's side.

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.

Bash Beautify

A simple `vscode` extension to format bash script in `Nodejs` that spawns a child `python` script process to format the current source file, find it on the marketplace

Arduino Network Manager

Using `Java`, this project controls a network of `Arduino`s, The program monitors the state of the `Arduino`s 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