Projects

Project title: Arduino UPS
Date: Jul 20, 2017
Description: An UPS made of old UPS and Arduino. Design and implementation of an UPS on Arduino UNO platform.
Operating system: Embedded (Arduino)
Language: C
IDE: Arduino IDE
Hardware: Arduino UNO, Display with keypad (LCD KeyPad Shield)
Link: https://github.com/kyberdrb/Arduino_UPS

Project title: Pong
Date: Feb 7, 2017
Description: Network multiplayer game "Pong". Desing and implementation of a network multiplayer game "Pong".
Operating system: Linux (Arch Linux)
Language: C
Technologies: SDL, sockets
IDE: CodeBlocks
Link: https://github.com/kyberdrb/semestralka_vstavane_systemy

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Project title: Keylogger
Date: Aug 20, 2017
Description: Capture input from a keyboard into a text file. Modification of an existing keylogger project.
Operating system: Windows
Language: C
IDE: CodeBlocks
Link: https://github.com/kyberdrb/windows_keylogger

Project title: Párovačka
Date: Qt: 7/2017-8/2017; Python: 7/2018-8/2018
Description: A programm for finding an person from a group of people to get a gift. GUI and algorithm desing and implementation. First version of the application was written in C++ and Qt for GUI. Then it was rewritten into Python and Tk for GUI.
Operating system: Cross-Platform (Windows/Linux)
Language: C++, Python
Technologies: Qt, Tkinter
IDE: Qt Creator, PyCharm, Visual Studio Code
Links:
https://github.com/kyberdrb/Parovacka_Qt
https://github.com/kyberdrb/Parovacka_Python

Project title: Android application for position tracking of a mobile device
Date: Feb 7, 2017
Description: Application for gathering information from GPS, Wi-Fi and Bluetooth and its sending to the server. Desing and implementation of GUI, implementation of object-oriented desing, file caching and REST client.
Cooperated by: Departement of Informatics, FRI ŽU
Operating system: Android (4.0+)
Language: Java
IDE: Android Studio
Link: https://github.com/kyberdrb/PedTrack

Project title: SDN firewall
Date: May 20, 2018
Description: SDN firewall is a service implemented for a SDN controller POX. Interaction with the module is provided via a Bash script.
Cooperated by: Department of Information Networks FRI ŽU
Position in team: Developer
Operating system: Linux (Mininet/Ubuntu/Debian)
Language: Python, Bash
IDE: Visual Studio Code
Technologies: Mininet, POX, OpenFlow (1.0)
Links:
https://github.com/kyberdrb/FRI/tree/master/Ing/4.semester/Integracia_Sieti/semestralka
https://github.com/kyberdrb/sdnfirewall