

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

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: Aug 14, 2018

Description: A programm for finding an person from a group of people to get a gift. GUI and algorithm desing and implementation. The algorithm finds a person to gift without reciprocity. 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: Multi-platform (Windows/Linux)

Language: C++ / Python

Technologies: Qt, Tk

IDE: Qt Creator, PyCharm, VS 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 their sending to the server. Desing and implementation of GUI, implementation of object-oriented desing, persistent service, file caching and REST client for sending files with location information.

Ordered / 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

Short description: SDN firewall is a service implemented for a SDN controller

Ordered / cooperated by: Department of Information Networks FRI ŽU

Position in team: Developer

Processed work part in details: Desing and implementation of SDN firewall module for POX SDN controller in Python. Interaction with the module via a Bash script.

Operating system: Linux (Mininet/Ubuntu/Debian)

Language: Python/Bash

IDE: VS 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>