

Petar Janićijević

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Education

University of Belgrade, School of Electrical Engineering
Computer Engineering and Informatics

2020 – Present
GPA: 8.85/10

Experience

Teaching Assistant

Oct 2022 – Present

Evaluated student assignments for courses Algorithms and Data Structures 1 and 2.

Projects

Estimating Gaze Direction with a Single Fixed Web Camera

Petnica Science Center

janicijevic.github.io/smerPogleda/main.pdf

Authored research paper on methods for estimating gaze direction based on images from a web camera. Developed and tested software implementing these techniques, assessing its accuracy against a dataset.

GcJoy: GameCube Controller Integration for PC

Personal project

github.com/janicijevic/gcJoy

Adapted a GameCube controller connector to interface with an Arduino. Programmed Arduino for real-time polling of controller's status and relaying data to PC. Developed C# code to receive controller data and integrate with third-party software emulating standard PC controllers.

Multiplayer Tetris

Personal project

github.com/janicijevic/tetris

Developed Tetris game using JavaScript for frontend gameplay mechanics. Implemented backend system to synchronize and connect two players for real-time competition. Utilized free server hosting for backend support.

Egg Bot

Personal project

github.com/lazaabt/eggbot

Collaborated on a 3D-printed robot designed to draw images on eggs. Developed Python-based software to decompose images into paths executable by the robot. Created GUI for controlling the robot and loading images.

File Transfer Protocol Client in C

Personal Project

github.com/janicijevic/ftpClient

Operating System Kernel in C, C++ and Assembly

School project

Operating Systems 1

Linear regression and Image Processing Demos in Julia

School project

Computer tools in mathematics

github.com/janicijevic/prmJulia

Accomplishments

Member of student aviation team Beoavia, electronics and programming section (Oct 2023)

Second team place in Informatics – C (Elektrijada 2022)

Second team place in Object Oriented Programming – C++ (Elektrijada 2022)

Research paper featured on “Korak u nauku” conference (Petnica Science Center 2020)

Skills

Programming: C, C++, Python, JavaScript, C#, Arduino, x86 ASM, Java, Julia

Software: Matlab, Linux, Bash, LaTeX, Git

Languages: Serbian (Native), English (Fluent, FCE B2 Certificate)