

Petar Janićijević

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Education

University of Belgrade, School of Electrical Engineering **2020 – Present**
Computer Engineering and Informatics Bachelor's GPA: 8.85/10

Experience

Student 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

Developed **Python** software utilizing **OpenCV** library to process webcam images and estimate gaze direction via regression analysis. Evaluated its accuracy against a dataset resulting in a research paper for the Applied physics and electronics seminar at **Petnica**.

GcJoy: GameCube Controller Integration for PC **Personal project**
github.com/janicijevic/gcJoy

Implemented GameCube's communication protocol on **Arduino** for controller state polling, established UART-based data transfer to PC, and created C# software capturing and forwarding the data to third-party emulation 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, Arduino, Assembly, Java, C# (familiar), Julia (familiar)
Software: Git, Matlab, Linux, Bash, LaTeX
Languages: Serbian (Native), English (Fluent, FCE B2 Certificate)