

# Filip Grujić

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## Education

**B. SE. (in progress), School of Electrical Engineering, University of Belgrade, Serbia (Oct 2014 – present)**

- 4-year undergraduate studies, Department of Software Engineering.

**Telecommunications technician, Nikola Tesla School of Electrical Engineering, Belgrade, Serbia (Sep 2010 – Jun 2014)**

- 4-year telecommunications technician course.

## Projects

**[University course - Foundations of Computer Architecture] CPU Design (Feb 2016)**

- The project comprised of designing the hardware of a one-address machine based on given architecture requirements, including all phases from instruction fetching to interrupt handling and control unit operation.

**[University course - Operating Systems] Kernel Design (May 2016)**

- Design of a simple multithreaded kernel written in C++ and x86 assembly, developed for the Intel 8086 microprocessor.

**[Competition entry - Student Prize of the Mathematical Institute of the Serbian Academy of Sciences and Arts (SANU) in the field of computer science] CodeSpeak (July - September 2017)**

- Was part of a two-student team whose goal was to make a chat application with advanced features for editing and formatting source code. The app was developed in Python using the sqlite3, pygments, and SleekXMPP libraries.

**[University course - Operating Systems 2] Memory Management (Jan 2018)**

- Design of simple memory management system with capabilities of allocating and deallocating virtual memory, setting access rights to the pages in the segment, and creating shared segments. Written in C++.

**[University course - Principles of Software Engineering] Board Game Dixit (June 2018)**

- Was part of a four-student team whose goal was to make a web application for playing board game "Dixit". The app was developed in Python, using Django framework, as well as React and Redis for game, and PostgreSQL for storing data. My part was user authentication, managing user data, and user management.

## Skills & Abilities

### **Personal:**

- Persistent, adaptable, reliable, hard-working, team player, friendly

### **Programming languages:**

- C/C++, Java, Pascal, SQL, Python, PHP

### **Operating systems:**

- MS Windows, Linux

### **Work on aforementioned and/or student projects included working with:**

- MS Visual Studio, Netbeans, Eclipse, IntelliJ IDEA, MS Office

### **Languages:**

- Native Serbian, excellent English (fluent in conversation, reading and writing), German (basic conversation, reading and writing), French (basic conversation, reading and writing)