

IOVA DUMITRU-ALEXANDRU

ELECTRICAL & TELECOMMUNICATIONS ENGINEERING STUDENT



CONTACT

+40726621724

iovaalex1234@gmail.com
dumitru.iova@stud.etti.upb.ro

Bucharest

[LinkedIn](#)

[Github](#)

[Portfolio](#)

SKILLS

PROGRAMMING LANGUAGES

- C/C++, Java, Python

WEB DEVELOPMENT

- JSP, Servlets (Jakarta EE), HTML, CSS, JavaScript

BACKEND & DATABASES

- MySQL, Hibernate ORM, REST APIs

ELECTRONICS & DESIGN TOOLS

- OrCAD, Eclipse IDE, Arduino IDE

SIMULATION & ANALYSIS

- MATLAB

RELEVANT COURSEWORK

- Analog Integrated Circuits
- Digital Integrated Circuits
- Signals and Systems
- Electronic Devices
- Databases
- Computer Programming and Programming Languages

LANGUAGES

- Romanian (native)
- English B2/C2



PROFILE

Third-year student at the Faculty of Electronics, Telecommunications and Information Technology, interested in networking, embedded systems, and digital circuits. I have knowledge of programming languages such as C/C++, Python, Java, and JavaScript, as well as experience working with MySQL databases and REST APIs. Additionally, I have experience using electronic design tools like OrCAD and computational tools such as MATLAB. My academic background covers both hardware and software aspects, including embedded systems and technologies related to electronics and information systems.



ACADEMIC PROJECTS

Database Project - MySQL

- Developed a database-driven web application using MySQL, implementing backend logic and REST APIs with Java 21, Hibernate ORM, and JSP & Servlets (Jakarta EE), deployed on Apache Tomcat 11.
- Designed and built the user interface using HTML, CSS, and JavaScript, ensuring interaction between frontend and backend components.
- Worked with Eclipse IDE for development, focusing on integrating database operations and managing application functionality.

Laser Detection System with Automatic Calling - Arduino

- Built a laser-based security system using an ESP32 and SIM800L GSM module for automatic call alerts.
- Used a laser, photodiode, buzzer, and capacitor for detection, alarm signaling, and power stability.
- Implemented the logic in Arduino IDE (C/C++), handling sensor input and GSM communication via AT commands.

Low-Frequency Voltage Amplifier (OrCAD 17.2)

- Designed and simulated an amplifier using OrCAD
- Analyzed circuit behavior and verified performance through simulation
- Practical implementation of the amplifier in the laboratory (in progress)



EDUCATION

POLITEHNICA UNIVERSITY OF BUCHAREST

Faculty of Electronics, Telecommunications and Information Technology

Bachelor's Degree - Microelectronics, Optoelectronics and Nanotechnologies (MON)

2023-Present
Bucharest

Gib Mihaescu National College

Mathematics-Computer Science specialization

2019-2023
Dragasani

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VOLUNTEERING EXPERIENCE

Volunteer - Electronics Students League (LSE)

- Active volunteer since the first year of university, contributing to the organization and coordination of major student and international events.
- Supported the planning and execution of RoboChallenge, an international robotics competition with participants from over 30 countries, assisting with logistics, technical setup, and event operations.
- Contributed to the organization of LAN Party, the largest student esports competition, helping manage event logistics, participant coordination, and technical infrastructure.
- Assisted in the setup and coordination of technical equipment, event spaces, and participant areas, ensuring smooth event flow.
- Collaborated with team members to handle on-site problem solving, participant support, and event management under dynamic conditions.