

YORDAN YORDANOV

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EDUCATION

BSc Computer Systems and Technologies

2022 - 2026

Ruse University, Ruse, Bulgaria

- **Erasmus Exchange:** University of Pavia, Pavia, Italy (Apr - Jul 2026)
 - Developed bachelor's thesis during the exchange
- **Erasmus Exchange:** Czech Technical University, Prague, Czech Republic (Feb - Jun 2025)
- **Erasmus Exchange:** University of Ioannina, Ioannina, Greece (2023 - 2024)

Applied Programmer Qualification

2018 – 2021

IT Kariera

Baba Tonka High School of Mathematics

2013 – 2021

Ruse, Bulgaria

EMPLOYMENT

Teaching instructor DONSIM OOD Oct 2024 – JAN 2025

- Designed and taught a complete **Arduino** programming course, covering **electronics** fundamentals, **embedded programming**, and hands-on laboratory exercises.

Software Engineering Intern Photolitics Nov 2022 – FEB 2023

- Developed **Python**-based automation tools for a hardware–software **testing** platform for image sensors, including **instrument control**, data collection, and validation workflows.

Software Engineering Intern TelebidPro Mar 2022 – APR 2022

- Implemented backend functionality using **PHP** and **PostgreSQL**, including **API integrations** and database operations for web applications.

Software Engineering Intern DSI Ltd AUG 2020

- Developed an employee management web application using **Node.js** and **MySQL**, implementing features for managing employee records and business data.

TECHNICAL EXPERIENCE

EyeGuard

Bachelor's Thesis Project (University of Pavia)

- Developed a real-time **Python computer vision** app (Windows/Debian Linux) that utilizes **MediaPipe** and a **custom-trained ML model** to analyze webcam feeds for unhealthy habits (blink rate, screen distance) and trigger OS notifications.
- **GitHub:** github.com/thr33bricks/eyeguard

Lemon Resource Monitor

- Independently developed a complete plug and play PC performance monitor (CPU/GPU, RAM/VRAM, FPS, Temps). Engineered all components of the product from scratch, including the **mechanical parts**, a **custom PCB (Altium Designer)**, **C firmware**, and a lightweight (<5 MB) **C# Windows application**.
- **GitHub:** github.com/thr33bricks/LemonMonitor

ParKOMP

- Engineered an automated parking system integrating a **Node.js/MySQL** backend, **web** and **Flutter** client apps, and a custom **Python/OpenCV FastAPI** License Plate Recognition (**LPR**) **algorithm**. Built a Wi-Fi IP barrier **hardware from scratch**, utilizing an **ESP8266** microcontroller and custom **C++** motor control firmware.
- **GitHub:** github.com/thr33bricks/ParKOMP

PUBLICATIONS & AWARDS

- **Publication (2023):** "Reversing BLE Remote Control Protocols of Dual Channel LED Lamps with CCT and Illumination Control" - IEEE Conference Paper.
- **2024 Awards:** Ruse 21 Century Award (One of 3 awarded students in the city); 1st place for ParKOMP at Competition for innovative computer developments; 1st place for IoT paper at RU Student Scientific Session.
- **2023 Award:** Huawei SFTF Scholarship (€2000 award).
- **2021 Award:** Laureate (1st place) in IoT at National Olympiad in IT.

SKILLS

- **Languages:** Python, C/C++, C#, JavaScript.
- **Embedded and Hardware:** ESP32/8266, AVR, Arduino, Altium Designer (PCB design).
- **Frameworks and Libraries:** FastAPI, OpenCV, MediaPipe, Node.js, Flutter.
- **Tools:** Git, Docker, Nginx, WireGuard, Linux (Ubuntu), Windows.
- **Databases:** MySQL, PostgreSQL, SQL Server.
- **CAD:** Fusion360, FreeCAD, Cura.
- **Spoken Languages:** Bulgarian (Native), English (Fluent/C1), German (Elementary/A1).