



# Luka Đorđević

B.SC. STUDENT AT TUHH

## PROFILE

Engineering (especially electronics) has been my passion since I was a child. I'm dedicated to improving my skills with both theory and hands-on experience. I enjoy teaching others as much as learning myself.

## SKILLS

- 3D printing and laser cutting
- PCB design and SPICE
- 3D and 2D CAD
- Electrical measurements and soldering
- Optimization for small-scale manufacturing

## AWARDS

- Second place in national power electronics competition, Serbia (2023)
- First place in team competition at the KSAN science camp [2022]

## WORK EXPERIENCE

### Student Associate

Hamburg University of Technology / May 2025 - present

- Hold soldering workshops for other students
- Design PCB and mini project within budget

### Junior Teaching Associate

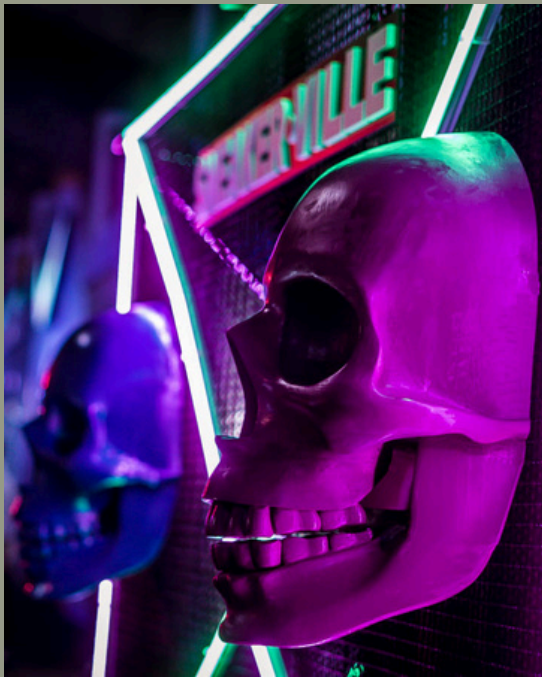
Petnica Science Center / August 2024 - present

- Hold lectures on topics in electrical engineering for high school and elementary school students
- Contribute to perfecting seminar curriculum
- Organize lab exercises for seminar attendees

### Electronics Teacher

Little School of Electronics / May 2023 - September 2024

- Teaching electronics to students aged 6-14 with a "learning by doing" approach
- Helping children build intuition about electronic components and circuits



## PUBLICATIONS

- High Frequency PWM generator and bootstrapping circuit - IEEESTEC conference at Niš Faculty of Electronic Engineering [2023]
- Automatic regulation of SEPIC converter - A Step Into Science, Petnica Science Center [2023]

## PROJECTS

- Instrument and Probe Organizer [2024]
- Brushless DC Motor Driver [2023]
- Homemade CO<sub>2</sub> Laser Cutter [2022]
- Passive Exoskeleton Proof of Concept [2022]

### 3D printing and design

*Freelance for Sport Vision | April 2022 - October 2022*

- Adjusting 3D models of large decorative elements and props and preparing them for 3D printing
- Managing a small-scale 3D printing farm, optimizing for speed, cost, and quality
- Assembly and painting of large decorative elements for a photo booth

## EDUCATIONAL HISTORY

### Hamburg University of Technology

*Bachelors in Engineering Science | Oct 2024 - present*

- Studying a variety of engineering topics and improving interdisciplinary skills

### Petnica Science Center

*Electronics seminars for high school students | April 2022 - August 2023*

- Getting more hands-on experience with different types of electronics lab equipment
- Listening to lectures from university professors and accomplished electronic engineers
- Getting support to participate in the IEEESTEC conference as well as the science center's own mock conference.

### High School of Electrical Engineering "Nikola Tesla"

*Process Control Technician | September 2020 - July 2024*

- Studying electrical engineering and process control fundamentals (PLC programming, feedback loops, sensors, motors)