



# NIKOLA PANTELIN

Electrical and Computer Engineer

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## Education

Bachelor with Honours in Electrical and Computer Engineering.

**Fakultet tehničkih nauka, Novi sad**  
2017-2024

Process control electrician

**Etš "Mihajlo pupin", Novi sad**  
2013-2017

## Expertise

- Microcontrollers
- PLC Ladder Logic
- C/C++
- Analog and Digital Electronics
- Embedded Systems
- Documentation
- Market Research

## Personality highlights

- Passionate about technology
- Research-minded
- High level of curiosity
- Creative mindset
- Ambitious
- Honorable

## Work Experience

2015 –  
2024

Termo Čelik DOO

**Electrical and Computer Engineer**

- Branded smart heating solutions for users (IoT)
- Website design
- SEO Optimization and blog writing

2020 –  
2022

Bonaca DOO

Automation and control engineer

- Working on real-life projects for clients
- PLC Ladder programming
- Field work (Hardware setup, connections, etc.)

2022

ARS Embedded Systems LLC

Embedded systems engineer intern

- Embedded systems solutions for the automaker industry
- Electrical schematic design
- PCB Layout and design

## Project Highlights

EPS Kolubara

- Intercom communication on a bucket wheel excavator

Solar Powerd Irrigation System

- 5V irrigation system with low power self priming pump, with rainwater the system automatically regulates it's self with user notifications about: temp, humid, soil moisture and water lever.

Smart home solution

- Full local and internet control of our house, from digital control (lights, front gate control, security, etc.) to analog control (Manual temperature regulation, curtain and blinds regulation, etc.) with Home Assistant and Espressif mcu and MQTT.

Smart thermostat

- Smart thermostat that can control temperature, programmed with C/C++. 3D printed housing and a custom made PCB (More details in portfolio).