

# **NIKOLAY TULUPOV**

3 YEAR STUDENT, 20 Y.O.

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## **区** Skills

## Technical skills

## > </> Programming languages

C++ • C • Python • x86-64 assembly

#### > X Tools

MatLab ● Micro-Cap ● Motor-CAD ● Git ● LaTeX

### **>** □ Devices

Arduino ● STM32 ● RaspberryPi

#### > 👌 OS

Windows • Ubuntu

#### > > Craft

Soldering ● Milling cutting ● 3D printing ● Laser cutting

## Soft skills

- > Problem-solving and critical thinking
- **>** Communication
- > Self-learning
- > Planning



#### Moscow Institute of Physics and Technology

DEPARTMENT OF RADIO ENGINEERING AND CYBERNETICS

2022 - 2026



#### JSC PromSvyazRadio http://prsvradio.ru/

02.2024 - Present

ASSISTANT TO THE CHIEF ENGINEER

Moscow Institute of Physics and Technology

- Department of Electric Mobility and Magnetic Systems
https://mipt.ru/education/basic-departments/kafedra-elektromobilnosti-i-magnitnykhsistem
9.2024 - 11.2024

**TECHNICIAN** 

### JSC AMPEREMAGNETE https://ampere.amtc.ru/ru/

10.2024 - Present

INTERN IN THE GROUP FOR THE DEVELOPMENT OF CONTROLLERS FOR ELECTRIC VEHICLES



## **Projects**

#### > Radio station remote control system [Link!]

An interface for remote control of the Motorola XTL 2500 mobile radio station. The operator console uses a GUI based on SFML, and the control unit is implemented on Raspberry Pi, transmission takes place over Ethernet.

Tools: C++, Make, RaspberryPi, circuit design and soldering

#### > Algorithm for an electric vehicle charging station [Link!]

Algorithm for firmware of the charging station board for charging an electric vehicle with alternating current according to GBT 18487 standard.

*Tools:* Matlab Simulink, draw.io, C/C++, circuit design and soldering

#### > Arduino projects

• Radio-controlled airplane [Link!]. Model of a radio controlled airplane of foam plastic with a remote control mode on Arduino Uno, a receiver for the airplane on Arduino Nano.

*Tools:* Soldering, Arduino IDE, C

- **Parktronic** [Link!]. Model of a radio controlled airplane made of foam plastic with a remote control mode on Arduino Uno, a receiver for the airplane on Arduino Nano. *Tools:* Soldering, Arduino IDE, C
- Nalivator [Link!]. Model of a radio controlled airplane made of foam plastic with a remote control mode on Arduino Uno, a receiver for the airplane on Arduino Nano. *Tools:* Soldering, Arduino IDE, C

# Hobbies & Interests

- > **d** Playing the guitar
- > 🖨 Cars and autosport