Nikita Mikhailovskiy

Contacts

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Languages

English - C1
Russian - Native

Hobbies

- Graphical Design
- Lawn tennis
- Games

Residency

Kazakhstan

Summary

Responsible student with a passion for electronics, control systems, and computer science with research interests in robotics, computer vision, and signal processing. Experienced in embedded systems design and prototyping electronic devices, robots.

Skills

Electrical Engineering: LabView, MATLAB, KiCAD, LTSpice, Autodesk Inventor/Fusion
Software Development: C/C++, Python, CUDA, Full Stack Web (JavaScript, PHP), Git, Docker, ROS, Linux

Research

N. Mikhailovskiy, S. Perminov, A. Sedunin, and D. Tsetserukou. “UltraBot: Autonomous mobile robot for indoor UV-C disinfection,” in Proc. IEEE Int. Conf. on Emerging Technologies and Factory Automation (ETFA 2021), Västerås, Sweden, 7-10 September 2021.

Experience

* RESET Eurobot 2020/21 Winner (1st), *November 2019 – May 2021*
  Position: Mentor, Electrical Engineer, Team Member
  Tasks: To create robots for international competition, propose control system with reliable controller design, provide controller firmware.

* First Drone Games Hackathon Winner (1st), *March 2021*
  Position: Team Member

* WareVision Internship, *Summer 2020*
  Position: Software Engineer, Electrical Engineer
  Task: Design and assemble UV-C disinfection robot prototype.

* Website for Industrial Electronic academic department of TUSUR,
  February 2017 – May 2018
  Position: Full-stack web developer
  Task: Update the department website and migrate it to a newer backend version with new features.

Education

* *September 2019 – June 2021*
  Skolkovo Institute of Science and Technology, Moscow, Russia
  Master's degree
  Track: Space and Engineering Systems
  Thesis: Development of control and computer vision system of the autonomous robot for UV-C disinfection

* *September 2015 – June 2019*
  Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia
  Bachelor's degree with distinction
  Track: Electronics and nanoelectronics
  Thesis: AC power switch device with IoT based Monitoring and Control System

Additional courses

Coursera:
- Algorithms (Part I & II), Princeton University
- Introduction to FPGA design for Embedded Systems, University of Colorado Boulder
- Neural Networks and Deep Learning, deeplearning.ai
- Fundamentals of Graphic Design, California Institute of the Arts

Sololearn: PHP, JavaScript, SQL, jQuery, CSS, HTML

CISCO Networking Academy:
- Introduction to the Internet of Things