Андрей Маракулин

Age: 23 y.o.

Location: Sirius, Russia

Language: Russian, English

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🎓 Education

- **University of Tyumen**

  (Tyumen) Physical Faculty, Technical physics

- **Lomonosov Moscow State University**

  (Moscow) Faculty of Physics, department of particles physics

- **Sirius University of Science and Technology**

  (Adler Microdistrict) Mathematical Robotics and Artificial Intelligence

🛠️ Skills

- **TensorFlow, Deep Learning, Machine Learning**

  Image recognition, classification, generative nets etc.

- **Computer vision, OpenCV, OpenGL**

  Art application, detection, real-time recognition

- **3D-modeling, Autodesk Fusion 360, Adobe PS, Corel Draw**

  Airplanes models, parts-modeling, layouts, laser cutting

- **Servers, Git, Mercurial, Linux, Docker, PostgreSQL**

  Launch, support, systemization, API-development

- **Microcontrollers programming**

  Arduino, Raspberry controllers, device creation

👨‍💻 Work experience

- **Tutor of microcontrollers programming**

  Initiative Creativity Center of the Youth “FabLab UTMN” (Tyumen, Russia)

  Tutor for programming microcontrollers and development of high-tech devices for children aged 12-15 years. Project Leader, I read a course on programming in C++, binary logic, and practical applications.

- **Tutor of C++ and Python programming languages**

  Freelance

  Assistance to children, high school students, university students and graduates with the development of courses in programming languages, helps with term paper and thesis writing.

- **Python developer, Deep Learning Engineer**

  Center of Engineering Physics at Lomonosov Moscow State University

  Working on “EyePoint P10” - a signature analysis system. EyePoint P10 aims to detect faulty electronic components on printed circuit boards. My respon-sibilities are write Python code, fix bugs, working on architecture and use deep neural networks for electronic components recognition.

- **Teacher of neural networks courses**

  Faculty of Physics, Lomonosov Moscow State University

  I teach a one-year course on neural networks and machine learning second term students of the Faculty of Physics. The course covers a wide range of neural networks types, deals with solving various problems, and covers such studies-related tools as TensorFlow, Git, Jupiter. In the second part of the course, students do a practice-oriented coursework with teacher assistance.

Open source projects

- **PulchraBookmarks** - Chrome extension for newtab
- **Sessiya Bot** - VKontakte Chat-bot for students
- **Music Files Normalizer** - Program for mass correction of .mp3 file names
- **EPC-MSU/epdetection** - Module to detect PCB components by neural network