RESUME

SAYED HAMED SEYAR MUSHTAQ

Graduated with bachelor's degree in Electrical Equipment and Industrial Electronics

Awarded the title of Best Foreign Student of 2023 at Moscow Polytechnic University

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LANGUAGE SKILL

Dari / Persian	Native
Pashto	Native
English	C1
Russian	C2
Arabic	A2

PROGRAMMING SKILLS

- Python
- C/C++
- HTML
- CSS
- SASS
- XTML
- JavaScript/Java
- SQL
- ROS/ROS2

COMPUTER SKILLS

- Network & Hardware
- 3D Print Applications
- Visual Studio
- PyCharm
- Microchip Studio
- Proteus
- PCB Design Application
- Arduino IDE
- Linux OS
- Qt Designer

PROFESSIONAL COURSE

Dec 2023 – Feb 2024

Certificate of "Electrified Cars" course
Moscow Polytechnic University

WORK EXPERIENCES

Sep 2022 – Aug 2024

Moscow Polytechnic University

Engineer at Flying Robotic Laboratory

Developing design and control system of COEX copter programs and design while also empowering students aged 8-16 with the skills to design and program Drone copters and preparing them for high-level Russian and international robotic competitions.

Sep 2023 – Jan 2024

Moscow Polytechnic University & Parus Electro

Contributing member to the 50kW automobile fast charger project.

Under a university project, we were actively involved in the development of a 50kW fast charger system for electric vehicles. In this capacity, I spearheaded the design and simulation of the circuit board using MATLAB applications.

Sep 2022 – Feb 2024

Moscow Polytechnic University

Chairman of International Club

As Club chairman, I have led the international event and mentored students for competitions and guided project realization. Through these efforts, I created a dynamic platform for showcasing talents and skills

Sep 2021 – July 2023

Moscow Polytechnic University

Team Leader of student projects involving Robot Rover and COEX drone technology.

As the leader of university projects for students, I played a pivotal role in overseeing the development of a Rover robot and the creation of COEX drone copters. Through my guidance and expertise, we successfully executed these projects, showcasing innovation and technical prowess within our academic community

WORKSHOPS AND TRAININGS

Apr 2023

Leadership and diplomacy's workshop

UN Models C-MIMUN 2023
Duration: 1 week, Moscow

- AutoCAD
- Inventor
- Fusion 360
- SolidWorks
- KOMPAS
- MATLAB
- PTC Mathcad
- MS Projects
- MS Package
- Graphic Design Application

MAJOR ACHIVEMENTS

- Designing of two automobiles from sketch in Fusion 360 application.
- Development of Rover robot system in Moscow Polytechnic university.
- Deigned and have built radio-controlled of DC-6 American aircraft and successfully lunched.
- Development of the COEX clover 4.2 construction with new carbon material and electronical system.
- Won 3 gold medals and 1 silver medal in powerlifting competition.
- Published 3 articles in Russian universities magazine.
- Awarded the title of Best Foreign Student of 2023 at Moscow Polytechnic University.
- Developed 50Kw electrical fast chargers by MATLAB application in Parus Electro company.

SKILLS

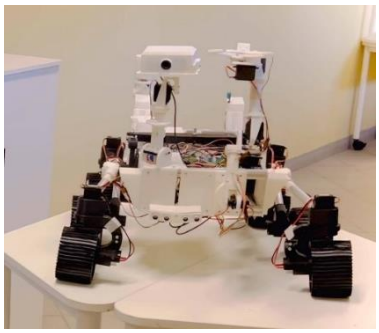
- Strategic Planning
- Critical Analysis
- Technical Skills
- Team Working
- Self-Starting
- Adaptability
- Technology Orientation
- Result Orientation
- Creativity
- Problem solver
- Responsible

Sep 2022 – *Present*

Engineer of COEX copters
Moscow Polytech University
Flying-robotic laboratory

MY MAIN PROJECTS

Model of NASA Rover

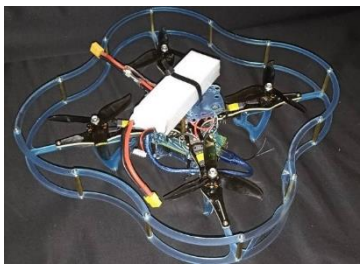


In 2024, for bachelor's thesis, I designed a radio-controlled system for all-terrain vehicles equipped with a robotic arm, camera, and sensors for research purposes. The robot, built on a Raspberry Pi 4 micro-computer, can be controlled remotely via the Internet from anywhere in the world in two modes: autonomous and manual

RC model of DC-6 American Aircraft

Amidst the Covid-19 pandemic effects in 2021, I embarked on a research project focusing on UAV aircraft and its applications. After months of dedicated research, I successfully 3D printed a model of the DC-6 aircraft and developed a radio-controlled system utilizing Pixracer flight controllers and a bottom-mounted camera. The aircraft demonstrated a flight range of up to 10km using the ExpressLRS remote control system.

Quadcopter



In 2023, I embarked on the construction of a quadcopter from scratch in the flying robotic laboratory of Moscow Polytechnic University. With the assistance of Research Center SPM in Moscow, I pioneered the development of a new carbon material specifically tailored for quadcopters. This innovative material boasts superior lightweight, strength, and cost-effectiveness compared to traditional carbon fiber. The drone itself is equipped with Pixracer flight control and a Raspberry Pi 4 minicomputer. The Raspberry Pi processes data from sensors and cameras, enabling autonomous and manual guidance of the quadcopter

Automobile and Aircraft 3D Modeling