

Diyora Daminova

Aerospace and Software Engineer

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Boulder, CO 80303

PROFESSIONAL EXPERIENCE

Aerospace Mechanics Research Center | University of Colorado Boulder

Research Assistant for Multi-physics Optimization Research and Innovation System (MORIS)

Boulder, CO | May 2024 – Present

- Developed a graphical user interface to enhance user experience and software accessibility for MORIS.
- Collaborated with researchers and PhD students to identify and implement key software improvements.
- Conducted testing and debugging to ensure reliability and accuracy of software performance.

Integrated Teaching and Learning Laboratory (ITLL) | University of Colorado Boulder

Engineering Support Student

Boulder, CO | August 2023 – Present

- Assisted students with engineering projects, providing guidance on engineering concepts and practical applications.
- Facilitated workshops designed to enhance student skills in prototyping and design.
- Contributed to ITLL's mission by fostering a supportive learning environment for engineering students.

Integrated Teaching and Learning Laboratory (ITLL) | University of Colorado Boulder

Apprentice in Prototyping

Boulder, CO | November 2023 – May 2024

- Conducted maintenance and operations for MarkForged printers, Objet 30 printers, and laser cutters.
 - Assisted in creating and facilitating workshops on CAD modeling, 3D printing, and laser cutting.
 - Collaborated with supervisors to streamline prototyping processes within the Engineering Center.
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EDUCATION

University of Colorado Boulder

Boulder, CO | January 2023 – December 2026

Bachelor of Science in Aerospace Engineering Sciences | Minor in Computer Science

Chancellor's Achievement Scholarship Recipient, Quantum Scholars Fellowship Recipient

Academic Lyceum of Westminster International University

Tashkent, Uzbekistan | September 2020 – June 2022

High School Diploma in Database Operation Systems

PROJECTS

Project Plant

Self-monitoring Greenhouse for Sustainable Food Production

GEEN 1400 - University of Colorado Boulder | May 2023

- Designed a self-monitoring greenhouse to reduce food waste and CO2 emissions while promoting sustainable food production.
- Integrated soil moisture and temperature sensors with an automated solar-powered pump system.
- Collaborated with a team to optimize user experience and achieve a net-zero energy system.

UniSat Nano-satellite Educational Programme

UNICEF & Al-Farabi Kazakh National University | March 2022

- One of the first women from Uzbekistan to build a nanosatellite, advancing space technology in Central Asia.
 - Collaborated with 150+ girls from Kazakhstan and Kyrgyzstan to launch 3 nanosatellites into the stratosphere.
 - Gained hands-on experience in spacecraft engineering and international project collaboration.
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LEADERSHIP & CERTIFICATIONS

Society of Asian Scientists and Engineers (SASE) - Executive Board Public Relations Chair | Boulder, CO | 2023 – Present

TechGirls Certificate in Power Electronics - U.S. Department of State | 2021

TECHNICAL SKILLS

- Programming: C++, MATLAB, Python, Pascal, HTML, XML, CSS
- Prototyping: 3D Printing, Laser Cutting, CAD Modeling